CAMPBELL SOUP COMPANY and MARVEL COMICS GROUP
IN COOPERATION WITH THE U.S. DEPARTMENT OF ENERGY
PRESENT

CAPTAIN AMERICA®
and the
Campbell Kids™

PLUS: GAMES, PUZZLES, QUIZZES, AND ENERGY FUN!

A MESSAGE FROM CAPTAIN AMERICA® And the Campbell Kids™

HI, KIDS! THIS IS A COMIC BOOK ABOUT **ENERGY CONSERVATION!** IT HAS **ACTION, ADVENTURE,** ENERGY **FACTS**...AND ENERGY **FUN** PAGES WITH PUZZLES AND GAMES! **YOU** CAN HELP IN THE FIGHT TO CONSERVE ENERGY BY FOLLOWING THESE SUGGESTIONS...SO THAT OTHERS CAN USE AND ENJOY THIS COMIC!

WHEN YOU COME TO A **FUN PAGE,** TAKE A PIECE OF **TRACING PAPER** AND COVER THE PAGE! YOU'LL STILL BE ABLE TO **SEE** THE **GAMES** AND **PUZZLES!**

TRACING PAPER

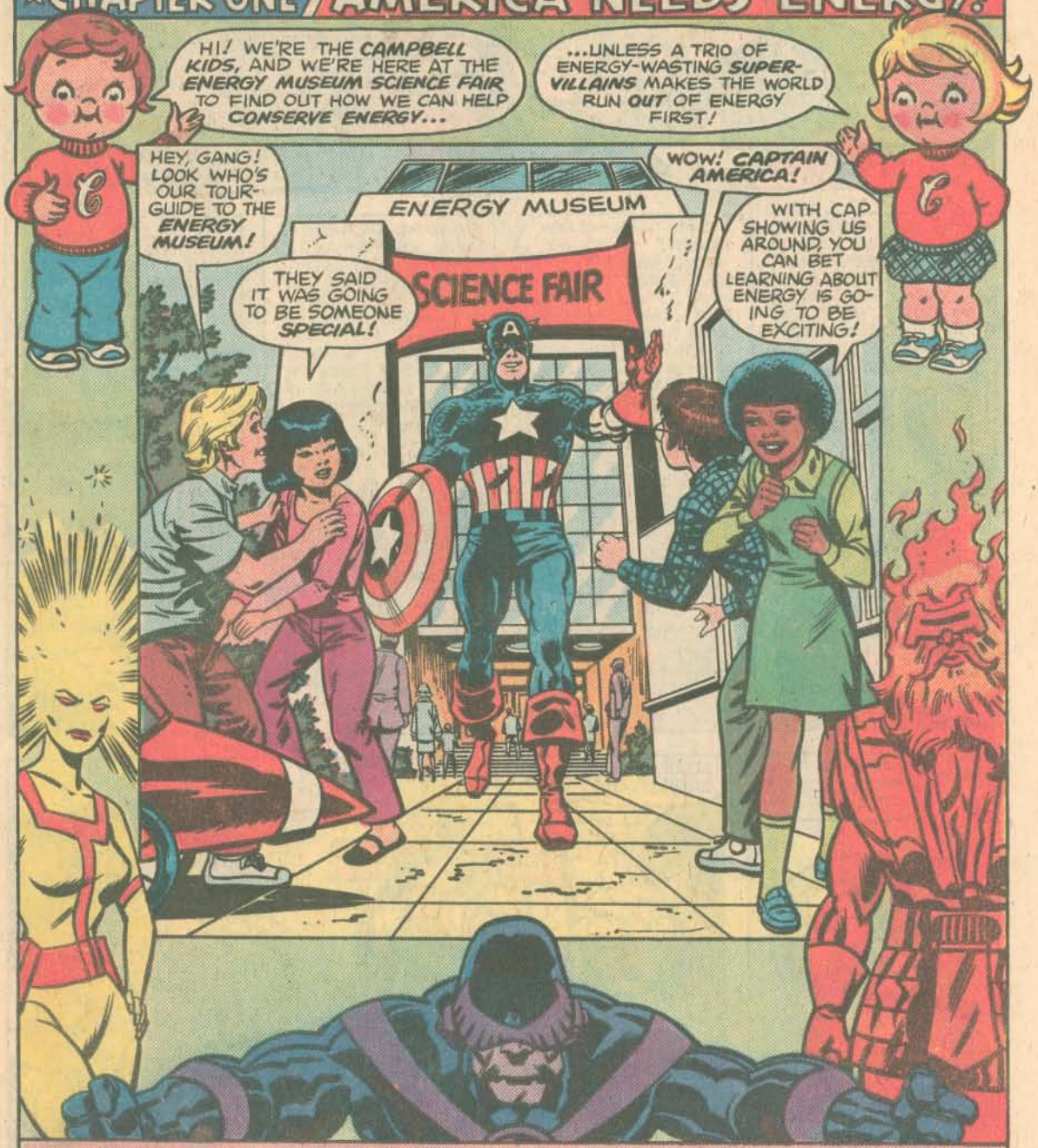
USE A **PENCIL** TO MARK YOUR ANSWERS ON THE TRACING PAPER! THAT WAY YOU'LL STILL BE ABLE TO DO THE PUZZLES AND PLAY THE GAMES... WHILE LEAVING THEM UNANSWERED FOR THE **NEXT** PERSON TO DO!

REMEMBER--IT'S EASY TO CONSERVE ENERGY! LITTLE BY LITTLE, THE ENERGY WE SAVE TODAY ADDS UP TO A BRIGHTER FUTURE TOMORROW!

ENERGY! KIDS ARE BORN WITH IT! SUPER HEROES HAVE IT! EVERYBODY NEEDS IT! BUT, WHAT HAPPENS WHEN THE WORLD IS IN DANGER OF LOSING IT?!! Stan Lee

CAPTAIN AMERICA VERSUS THE ENERGY DRAINERS

★CHAPTER ONE〉AMERICA NEEDS ENERGY!


HI! WE'RE THE CAMPBELL KIDS, AND WE'RE HERE AT THE ENERGY MUSEUM SCIENCE FAIR TO FIND OUT HOW WE CAN HELP CONSERVE ENERGY...
...UNLESS A TRIO OF ENERGY-WASTING SUPER-VILLAINS MAKES THE WORLD RUN OUT OF ENERGY FIRST!
HEY, GANG! LOOK WHO'S OUR TOUR-GUIDE TO THE ENERGY MUSEUM!
WOW! CAPTAIN AMERICA!
ENERGY MUSEUM
SCIENCE FAIR
THEY SAID IT WAS GOING TO BE SOMEONE SPECIAL!
WITH CAP SHOWING US AROUND, YOU CAN BET LEARNING ABOUT ENERGY IS GOING TO BE EXCITING!

SCRIPT: BILL MANTLO, ART: AL KUPPERBERG, HERB TRIMPE & DAN GREEN, LETTERS: T. WATANABE, COLORS: C. GAFFORD

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TO THE FOUR KIDS WHO HAVE ENTERED EXHIBITS IN THE ENERGY MUSEUM SCIENCE FAIR, CAPTAIN AMERICA NEEDS NO INTRODUCTION! HIS RED-WHITE-AND-BLUE COSTUME HAS MADE HIM A LIVING LEGEND!
SCIENCE FAIR
YOU OBVIOUSLY KNOW WHO I AM--NOW HOW ABOUT TELLING ME YOUR NAMES?
EASY READING
THEY CALL ME SOAP-BOX, 'CAUSE I'M ALWAYS DESIGNING SOAPBOX DERBY RACING CARS! SOMEDAY I'M GONNA BUILD ONE THAT RUNS LIKE A ROCKET, BURNING FUEL A MILE A MINUTE!
I'M CLARA--CLEAN CLARA! THAT'S MY NAME BECAUSE I'M ALWAYS INVENTING NEW WAYS TO KEEP MYSELF CLEAN. MY SCIENCE FAIR EXHIBIT SHOWS HOW, BY PUSHING BUTTONS, I CAN TURN ON ANY APPLIANCE IN THE BATHROOM WITH EVERYTHING WORKING AT ONE TIME!
READING RICARDO IS MY NICKNAME--AND I READ ALL DAY AND ALL NIGHT! I'VE TAKEN TOY ROBOTS AND MADE THEM INTO SERVANTS TO BRING ME BOOKS, PLUS A LIGHTING SYSTEM I CAN TURN ON FROM ANYWHERE IN MY HOUSE!
I'M CALLED TV TANYA BECAUSE I LOVE TO WATCH TELEVISION AND TO PLAY VIDEO GAMES! WITH MY TELEBOX I WATCH OLD SHOWS AND NEW SHOWS WHILE PLAYING COMPUTER CHESS OR TIC-TAC-TOE AT THE SAME TIME!
CAPTAIN AMERICA IS TROUBLED!
HMM! YOUR EXHIBITS ALL SEEM TO USE A LOT OF ENERGY!
SURE, WE USE ENERGY, CAP!
WHY NOT?
THERE'S PLENTY OF ENERGY TO GO AROUND!
ISN'T THERE?
IS THERE? COME ON WITH ME, I'M GOING TO TAKE YOU ON A TOUR OF THE FUTURE!
CAPTAIN AMERICA LEADS THE PUZZLED CHILDREN TOWARDS THE ENERGY MUSEUM!

WALKING INTO THE ENERGY MUSEUM IS LIKE ENTERING AN ENERGY WONDERLAND! THE FOUR KIDS RECOGNIZE SOME OF THE WAYS IN WHICH AMERICA GETS ITS ENERGY NEEDS FROM OUR OWN NATURAL RESOURCES!
WOW!
EVERYTHING'S SCALED DOWN-- BUT IT ALL WORKS!
RIGHT! THAT OIL WELL'S PUMPING REAL OIL, AND THAT'S REAL WATER RUNNING OVER THAT DAM TO GENERATE ELECTRICITY!
THERE'S A NUCLEAR POWER PLANT-- AND THAT COAL MINE IS MINING REAL COAL!
NUCLEAR POWER EXHIBIT
WASTE TO ENERGY EXHIBIT
SOLAR HOME EXHIBIT
HYDR
HOME EXHIBIT
THOSE ARE SOME OF THE WAYS IN WHICH AMERICA GETS ITS ENERGY TODAY-- BUT I TOLD YOU I WAS GOING TO SHOW YOU THE FUTURE!

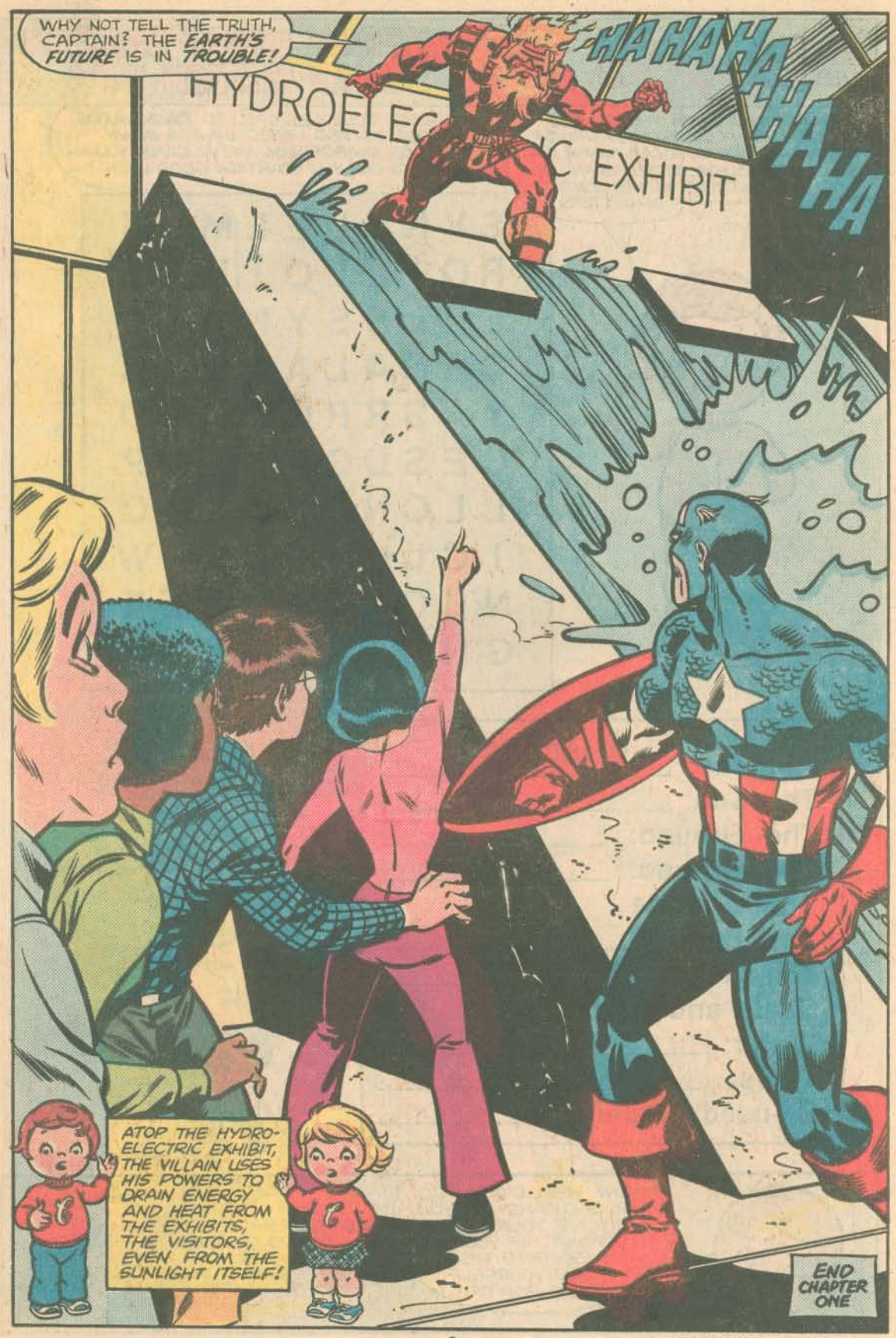
THE FOURSOME ARE AMAZED BY THE SHEER SIZE OF THE ENERGY MUSEUM'S EXHIBITS --BUT THEY ARE CONFUSED, TOO!
GEE, CAP! IF WE HAVE OIL AND COAL AND NUCLEAR POWER--
--WHY DO WE NEED NEW SOURCES OF ENERGY?
RIGHT! THE OLD ENERGY SOURCES HAVE BEEN GOOD UP TILL NOW!
SILLY! THAT'S PROGRESS! SCIENCE IS ALWAYS FINDING NEW AND BETTER ENERGY SOURCES!
THERE'S MORE TO IT THAN THAT! POWER FROM OIL, COAL AND NUCLEAR FISSION WILL BE WITH US FOR A LONG TIME TO COME!

--BUT RIGHT NOW, TODAY, AMERICA IS DEPENDENT ON FOREIGN COUNTRIES FOR ABOUT HALF OF ITS OIL NEEDS!
FOREIGN OIL ALONE COSTS AMERICA NEARLY $10 MILLION PER HOUR OF EVERY DAY, 365 DAYS A YEAR...AND THAT ENERGY COST KEEPS GOING UP!
THAT'S DUE TO INFLATION, RIGHT, CAP?
NO, THE RISING COST OF ENERGY INCREASES INFLATION, MAKING EVERYTHING ELSE COST MORE!

AMERICA'S EXISTING ENERGY SOURCES ARE ALREADY PROVING INADEQUATE FOR THE WORLD'S GROWING POPULATION! OIL IS EXPENSIVE AND WON'T LAST FOREVER--
--WE HAVE PLENTY OF COAL, BUT EVEN THAT WILL RUN OUT SOMEDAY--
--AND NUCLEAR POWER PRESENTS WASTE DISPOSAL PROBLEMS THAT HAVE YET TO BE FULLY SOLVED!

THAT'S WHY WE NEED TO DEVELOP OTHER ENERGY SOURCES, RIGHT, CAP?
RIGHT, CLARA! THE RISING COST OF OIL STARTED DEVELOPMENT OF NEW FORMS OF ENERGY, LIKE SYNTHETIC FUELS FROM SHALE--HEAT AND ELECTRICITY FROM GEOTHERMAL STEAM AT THE EARTH'S CORE--SOLAR POWER GENERATED BY THE SUN...
SYNTHETIC FUEL EXHIBIT

BUT, CAP, WE LEARNED IN SCHOOL THAT AMERICA IS ALREADY EXPLORING THESE ALTERNATIVE ENERGY SOURCES!
YEAH! YOU SAID YOU WERE GONNA TALK ABOUT THE FUTURE!
HAHAHAHAHA
EH? WHAT'S THAT SOUND??
THE SOUND OF EERIE LAUGHTER FILLS THE ENERGY MUSEUM!


WHY NOT TELL THE TRUTH, CAPTAIN? THE EARTH'S FUTURE IS IN TROUBLE!
HYDROELEC C EXHIBIT
HA HA HA HA HA
ATOP THE HYDRO-ELECTRIC EXHIBIT, THE VILLAIN USES HIS POWERS TO DRAIN ENERGY AND HEAT FROM THE EXHIBITS, THE VISITORS, EVEN FROM THE SUNLIGHT ITSELF!
END CHAPTER ONE

CONTINUED AFTER NEXT PAGE

The Campbell Kids' ENERGY WORD SEARCH AND MATCH-UP!

CAPTAIN AMERICA SHOWED YOU NINE ENERGY SOURCES: HYDROPOWER, WOOD, GEOTHERMAL, SOLAR POWER, COAL, SYNFUEL, NUCLEAR, RECYCLING AND OIL. CAN YOU FIND THEM IN THIS JUMBLE OF LETTERS?

THE NAMES COULD BE SPELLED BACKWARDS OR FORWARDS, AND LISTED UP-AND-DOWN, ACROSS, OR DIAGONALLY. WE'VE GIVEN YOU AN EXAMPLE TO GET YOU STARTED. GOOD LUCK!

S	Y	N	F	U	E	L	M	L	H
R	O	I	L	L	O	I	U	A	Y
E	P	L	S	S	Y	N	S	M	D
C	R	O	A	L	A	O	C	R	R
Y	A	S	R	R	G	O	L	E	O
C	E	S	D	G	P	W	E	H	P
L	L	O	N	R	H	O	S	T	O
I	C	L	O	C	G	O	W	O	W
N	U	C	L	E	A	D	O	E	E
G	N	O	T	H	H	W	P	G	R

NOW MATCH EACH ENERGY SOURCE TO THE PLACE WE GET IT FROM. HERE'S ANOTHER EXAMPLE TO GIVE YOU THE IDEA. IT'S EASY--AND FUN.

Humans: MUSCLES
The Sun: _____
The Ground: _____
The Ground: _____
Steam Inside The Earth: _____
The Atom: _____
Shale and Grains: _____
Water: _____
Trees: _____
Re-used Trash: _____

HOW WELL DID YOU DO? FOR EACH ANSWER YOU GOT, GIVE YOURSELF *1 POINT*. IF YOU GOT EVERYTHING RIGHT, GIVE YOURSELF *20 POINTS*.

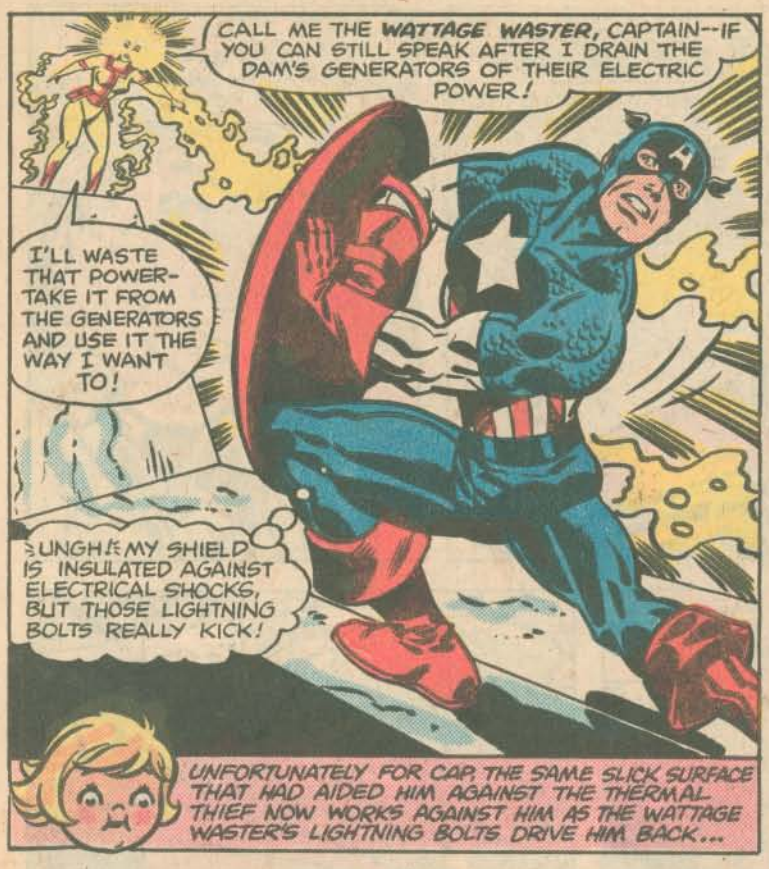
AND REMEMBER-- ALL POINTS GO TOWARD YOUR *ENERGY DIPLOMA*.

CHAPTER TWO

THE ARRIVAL OF THE ENERGY DRAINERS

WITHIN SECONDS OF HIS ARRIVAL, THE THERMAL THIEF TURNS THE INTERIOR OF THE ENERGY MUSEUM INTO A FREEZER AS HE DRAWS HEAT AWAY FROM ITS REAL PURPOSE!
NOW, WITH THE MUSEUM GUARDS SHIVERING, TOO OUT OF CONTROL TO ACT, IT IS UP TO CAPTAIN AMERICA TO TACKLE THE THERMAL THIEF!
GEOTHERMAL EXHIBIT
C--CAP, I-I'M SO COLD!
IT'S THAT--THAT THERMAL THIEF! HE'S DRAINING HEAT FROM EVERYTHING AND EVERYONE. THE HEAT IS WASTED AS HE USES IT TO FUEL HIS OWN BLAZING BODY!
ALL OF YOU STAY HERE! I'VE GOT TO TRY AND STOP THAT CHILLER-MENACE!

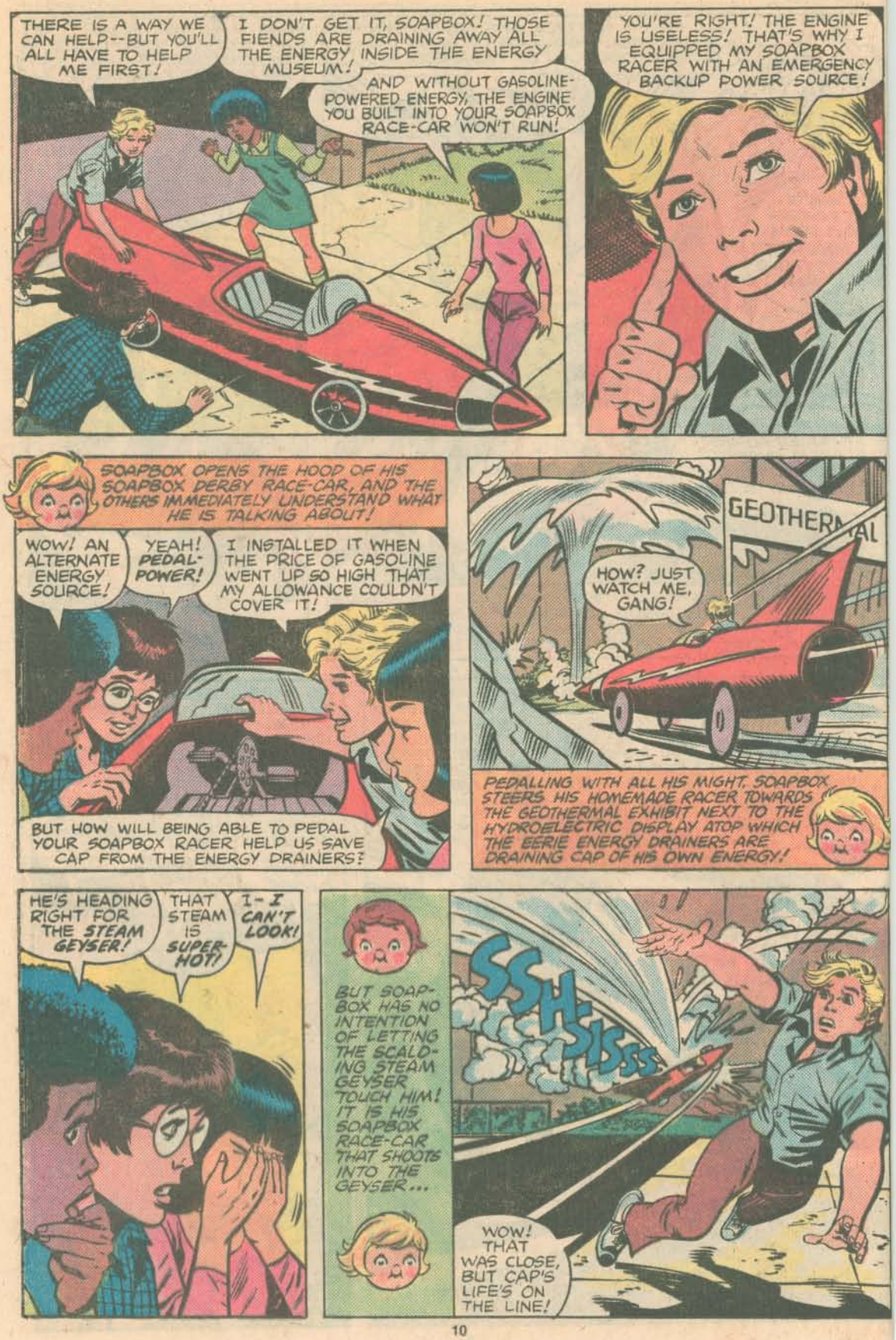
HIS SHIELD HELD BEFORE HIM, CAPTAIN AMERICA JUMPS INTO ACTION!
THE THERMAL THIEF HAS DROPPED THE TEMPERATURE INSIDE THE ENERGY MUSEUM BELOW THE FREEZING POINT, TURNING THE "RIVER" OF THE HYDROELECTRIC DAM EXHIBIT INTO A FROZEN WATERFALL!
IT'S SLIPPERY-- BUT THE FROZEN RIPPLES ARE JAGGED ENOUGH TO PROVIDE ME WITH HAND AND FOOTHOLDS!
REACHING THE TOP OF THE DAM, CAPTAIN AMERICA CONFRONTS THE THERMAL THIEF!
IMPRESSIVE, CAPTAIN! BUT GETTING TO THE TOP IS ONLY HALF THE BATTLE! YOU STILL HAVE TO FIGHT THROUGH MY ICY BARRAGE TO REACH ME!
THE THERMAL THIEF'S DRAINING HEAT FROM THE VERY SUNLIGHT ITSELF! THE SUN'S HEAT IS WASTED!
BUT MAYBE I CAN TURN HIS OWN POWER AGAINST HIM! BY FREEZING THE WATER GOING OVER THE DAM, HE'S MADE THE SURFACE SLICK AND ICY!
I CAN TAKE ADVANTAGE OF THAT TO ICE-SKATE BENEATH HIS ICE-BARRAGE--
--PROVING THAT, LIKE THE U.S. MAIL, NEITHER RAIN, NOR SLEET, NOR SNOW WILL STOP CAPTAIN AMERICA FROM DELIVERING THE BAD NEWS TO THIS SUPER-VILLAIN THAT IT'S TIME FOR A SPRING THAW!
KAPOW!
UNNHHHH!
SO MUCH FOR THE THERMAL THIEF, BUT I STILL DON'T KNOW WHAT HE MEANT WHEN HE SAID THAT EARTH'S FUTURE IS IN TROUBLE!
CAP, LOOK OUT!
SKRAK!
IF YOU'RE UNLUCKY, CAPTAIN, YOU MAY LIVE LONG ENOUGH TO FIND OUT!
EVEN AS CAPTAIN AMERICA DEFEATS THE THERMAL THIEF, HE FINDS HIMSELF UNDER AN ATTACK FROM YET ANOTHER SUPER-FOE!


CALL ME THE WATTAGE WASTER, CAPTAIN--IF YOU CAN STILL SPEAK AFTER I DRAIN THE DAM'S GENERATORS OF THEIR ELECTRIC POWER!
I'LL WASTE THAT POWER-- TAKE IT FROM THE GENERATORS AND USE IT THE WAY I WANT TO!
UNGH! MY SHIELD IS INSULATED AGAINST ELECTRICAL SHOCKS, BUT THOSE LIGHTNING BOLTS REALLY KICK!
UNFORTUNATELY FOR CAP, THE SAME SLICK SURFACE THAT HAD AIDED HIM AGAINST THE THERMAL THIEF NOW WORKS AGAINST HIM AS THE WATTAGE WASTER'S LIGHTNING BOLTS DRIVE HIM BACK...

...INTO THE WAITING ARMS OF THE DEADLIEST VILLAIN YET-- THE DOOMSDAY MAN!
S-SUDDENLY I FEEL WEAK!
A RESULT OF MY ENERGY-DRAINING TOUCH, CAPTAIN AMERICA!

I AM THE DOOMSDAY MAN, CAPTAIN! TOGETHER WITH MY PARTNERS--THE THERMAL THIEF AND THE WATTAGE WASTER I HAVE FORMED THE ENERGY DRAINERS!
EVEN AS I AM NOW DRAINING YOU OF YOUR ENERGY --SO, TOO, WILL WE DRAIN THE ENERGY OF THE ENTIRE WORLD!
AND THE KEY TO THE SUCCESS OF OUR PLAN IS TO BE FOUND RIGHT HERE INSIDE THIS ENERGY MUSEUM!

AS CAPTAIN AMERICA LIES HELPLESS UNDER ATTACK OF THE ENERGY DRAINERS, HIS FOUR YOUNG FRIENDS LOOK ON IN HORROR!
THEY'RE COMPLETELY DRAINING CAP'S ENERGY!
AND THEY CAN DRAIN THE WORLD OF ENERGY NEXT!
THERE HAS TO BE SOMETHING WE CAN DO!


THERE IS A WAY WE CAN HELP--BUT YOU'LL ALL HAVE TO HELP ME FIRST!
I DON'T GET IT, SOAPBOX! THOSE FIENDS ARE DRAINING AWAY ALL THE ENERGY INSIDE THE ENERGY MUSEUM!
AND WITHOUT GASOLINE-POWERED ENERGY, THE ENGINE YOU BUILT INTO YOUR SOAPBOX RACE-CAR WON'T RUN!
YOU'RE RIGHT! THE ENGINE IS USELESS! THAT'S WHY I EQUIPPED MY SOAPBOX RACER WITH AN EMERGENCY BACKUP POWER SOURCE!
SOAPBOX OPENS THE HOOD OF HIS SOAPBOX DERBY RACE-CAR, AND THE OTHERS IMMEDIATELY UNDERSTAND WHAT HE IS TALKING ABOUT!
WOW! AN ALTERNATE ENERGY SOURCE!
YEAH! PEDAL-POWER!
I INSTALLED IT WHEN THE PRICE OF GASOLINE WENT UP SO HIGH THAT MY ALLOWANCE COULDN'T COVER IT!
BUT HOW WILL BEING ABLE TO PEDAL YOUR SOAPBOX RACER HELP US SAVE CAP FROM THE ENERGY DRAINERS?
GEOTHERMAL
HOW? JUST WATCH ME, GANG!
PEDALLING WITH ALL HIS MIGHT, SOAPBOX STEERS HIS HOMEMADE RACER TOWARDS THE GEOTHERMAL EXHIBIT NEXT TO THE HYDROELECTRIC DISPLAY ATOP WHICH THE EERIE ENERGY DRAINERS ARE DRAINING CAP OF HIS OWN ENERGY!
HE'S HEADING RIGHT FOR THE STEAM GEYSER!
THAT STEAM IS SUPER-HOT!
I-I CAN'T LOOK!
BUT SOAP-BOX HAS NO INTENTION OF LETTING THE SCALD-ING STEAM GEYSER TOUCH HIM! IT IS HIS SOAPBOX RACE-CAR THAT SHOOTS INTO THE GEYSER...
SSHSISSS
WOW! THAT WAS CLOSE, BUT CAP'S LIFE'S ON THE LINE!

THIS REDIRECTS THE STEAM IN A BOILING, BLINDING CLOUD THAT SURROUNDS THE ENERGY DRAINERS AND DRIVES THEM AWAY FROM CAP!
I--I CAN'T SEE!
GEOTHER
YOU CAN'T FINISH ME OFF IF YOU CAN'T FIND ME, DOOMSDAY MAN--
THE STEAM'S THAWING EVERYTHING, THERMAL THIEF, CANCELLING YOUR POWER!
FOOLS! FORGET THE STEAM! WE MUST FINISH OFF CAPTAIN AMERICA!
--AND, THANKS TO SOAPBOX, I CAN RIDE DOWN TO SAFETY ON THE WATERFALL THAWED OUT BY THE SCALDING STEAM CLOUD!
HERE COMES CAP!
SOAPBOX DID IT!
HE SAVED HIM!
BUT, AS FAST AS CAP RECOVERS, THE ENERGY DRAINERS REGROUP EVEN FASTER!
CAP, LOOK--FLOATING ABOVE US ON A DISC OF NEGATIVE ENERGY!
CORRECT, CAPTAIN! RECOVERING YOUR ENERGY WILL DO YOU NO GOOD, FOR SOMEWHERE INSIDE THIS ENERGY MUSEUM THERE EXISTS SECRET WEAPONS WHICH WE PLAN TO USE TO DRAIN THE ENERGY OF THE WORLD!
THE ENERGY DRAINERS!
IF WE DISCOVER THE SECRET WEAPONS BEFORE YOU FIND THE KEY TO DEFEATING US, THE WORLD WILL BE HELPLESS BEFORE US!
HA HA HA HA HA HA
TH-THEY'RE LEAVING TO CARRY OUT THEIR PLAN!
ISN'T THERE ANYTHING YOU CAN DO TO STOP THEM, CAP?
I DON'T KNOW IF I CAN STOP THEM! YOU SEE, ONE OF THE ENERGY DRAINERS' SECRET WEAPONS IS TO DRAIN THE WORLD OF ITS ENERGY--AND THE KEY TO STOPPING THEM...
...IS YOU!
WHAT?!? HOW COULD FOUR CHILDREN HOLD THE KEY? CAPTAIN AMERICA KNOWS! DO YOU?

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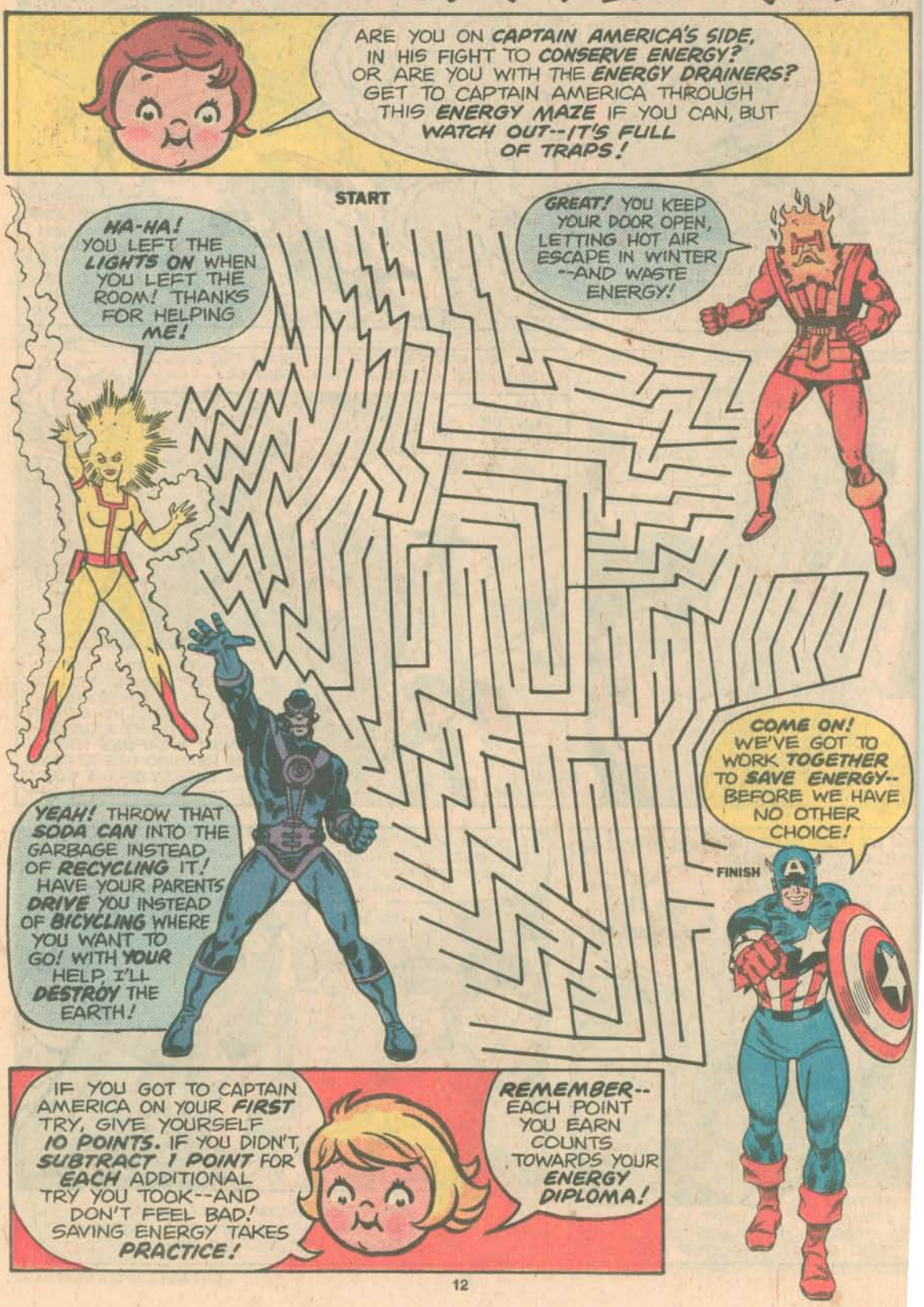
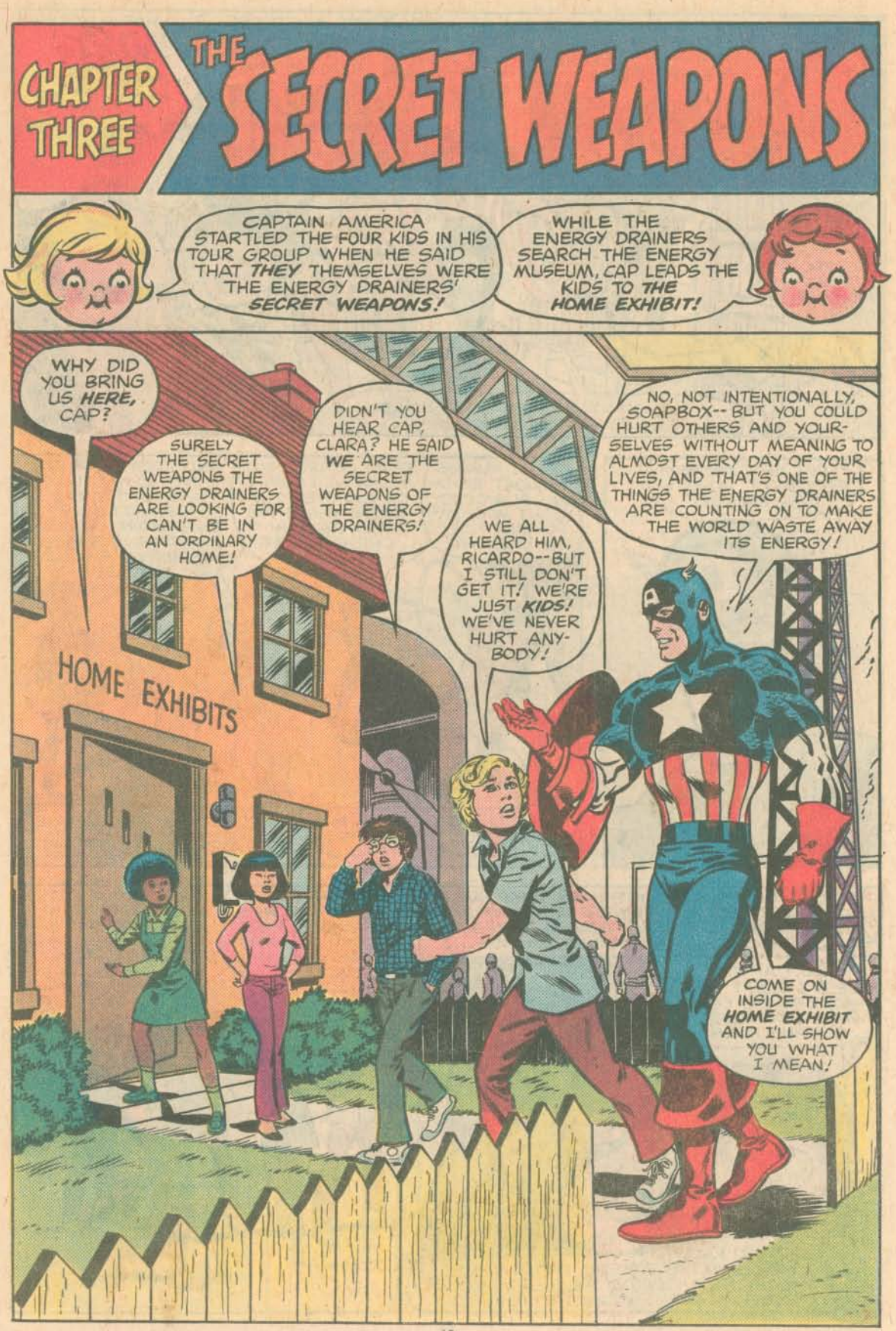
The Campbell Kids' ENERGY MAZE PAGE


ARE YOU ON CAPTAIN AMERICA'S SIDE, IN HIS FIGHT TO CONSERVE ENERGY? OR ARE YOU WITH THE ENERGY DRAINERS? GET TO CAPTAIN AMERICA THROUGH THIS ENERGY MAZE IF YOU CAN, BUT WATCH OUT--IT'S FULL OF TRAPS!
START
HA-HA! YOU LEFT THE LIGHTS ON WHEN YOU LEFT THE ROOM! THANKS FOR HELPING ME!
GREAT! YOU KEEP YOUR DOOR OPEN, LETTING HOT AIR ESCAPE IN WINTER --AND WASTE ENERGY!
YEAH! THROW THAT SODA CAN INTO THE GARBAGE INSTEAD OF RECYCLING IT! HAVE YOUR PARENTS DRIVE YOU INSTEAD OF BICYCLING WHERE YOU WANT TO GO! WITH YOUR HELP I'LL DESTROY THE EARTH!
COME ON! WE'VE GOT TO WORK TOGETHER TO SAVE ENERGY-- BEFORE WE HAVE NO OTHER CHOICE!
FINISH
IF YOU GOT TO CAPTAIN AMERICA ON YOUR FIRST TRY, GIVE YOURSELF 10 POINTS. IF YOU DIDN'T, SUBTRACT 1 POINT FOR EACH ADDITIONAL TRY YOU TOOK--AND DON'T FEEL BAD! SAVING ENERGY TAKES PRACTICE!
REMEMBER-- EACH POINT YOU EARN COUNTS TOWARDS YOUR ENERGY DIPLOMA!


CHAPTER THREE
THE SECRET WEAPONS
CAPTAIN AMERICA STARTLED THE FOUR KIDS IN HIS TOUR GROUP WHEN HE SAID THAT THEY THEMSELVES WERE THE ENERGY DRAINERS' SECRET WEAPONS!
WHILE THE ENERGY DRAINERS SEARCH THE ENERGY MUSEUM, CAP LEADS THE KIDS TO THE HOME EXHIBIT!
WHY DID YOU BRING US HERE, CAP?
SURELY THE SECRET WEAPONS THE ENERGY DRAINERS ARE LOOKING FOR CAN'T BE IN AN ORDINARY HOME!
DIDN'T YOU HEAR CAP, CLARA? HE SAID WE ARE THE SECRET WEAPONS OF THE ENERGY DRAINERS!
WE ALL HEARD HIM, RICARDO--BUT I STILL DON'T GET IT! WE'RE JUST KIDS! WE'VE NEVER HURT ANYBODY!
NO, NOT INTENTIONALLY, SOAPBOX--BUT YOU COULD HURT OTHERS AND YOURSELVES WITHOUT MEANING TO ALMOST EVERY DAY OF YOUR LIVES, AND THAT'S ONE OF THE THINGS THE ENERGY DRAINERS ARE COUNTING ON TO MAKE THE WORLD WASTE AWAY ITS ENERGY!
HOME EXHIBITS
COME ON INSIDE THE HOME EXHIBIT AND I'LL SHOW YOU WHAT I MEAN!

THE FIRST ROOM CAP LEADS THEM TO IS THE FAMILY LIVING ROOM! THERE, READING RICARDO FEELS RIGHT AT HOME!
WOW! THE ENERGY MUSEUM HAS INCORPORATED MY SCIENCE FAIR PROJECT INTO THE HOME EXHIBIT!
IT SURE IS BRIGHT IN HERE!
IT'S ALL THOSE LIGHTS SHINING ON RICARDO'S FAVORITE READING CHAIRS!
WHAT LUXURY! HIS OWN PRIVATE LIBRARY WITH TOY ROBOT SERVANTS TO BRING HIM HIS BOOKS!
I'LL ADMIT THAT READING RICARDO'S SYSTEM IS INGENIOUS--

--BUT IS IT ENERGY-EFFICIENT? DOES IT SAVE ENERGY?

GEE, I ALWAYS THOUGHT READING IN A GOOD LIGHT WAS IMPORTANT FOR MY EYESIGHT!
IT IS, RICARDO, BUT YOU HAVE LAMPS ON ALL OVER THE HOUSE WHILE YOU ONLY READ IN ONE CHAIR AT A TIME!
AND EACH LAMP HAS TWO 50-WATT BULBS! I READ THAT ONE 100-WATT BULB GIVES MORE LIGHT AND WASTES LESS ENERGY THAN TWO SMALLER BULBS!
THESE TOY ROBOT SERVANTS ARE NEAT, BUT I'LL BET YOU HAVE TO RECHARGE THEIR BATTERIES USING ELECTRICITY! YOU COULD SAVE ENERGY BY GETTING UP AND GETTING YOUR BOOKS YOURSELF!

THE PROBLEMS WITH HIS SCIENCE FAIR PROJECT NOW POINTED OUT TO HIM BY HIS FRIENDS, READING RICARDO LOOKS SHAMEFACEDLY UP AT CAPTAIN AMERICA...!
GEE, CAP I--I GUESS I DIDN'T THINK ABOUT SAVING ENERGY WHEN I DESIGNED MY READING ROOM!
IT'S HARD TO KNOW WHAT'S WRONG UNLESS SOMEONE SHOWS YOU WHAT'S RIGHT FIRST, RICARDO! THE ENERGY DRAINERS ARE COUNTING ON OUR IGNORANCE TO DEFEAT US!

THEN THE ENERGY DRAINERS DON'T HAVE A CHANCE!
YEAH! WE KNOW WHAT'S RIGHT!
WE SHOULD NEVER WASTE ENERGY!
TRUE, BUT I'M AFRAID YOU ALREADY HAVE CLARA, AND I'LL PROVE IT TO YOU WHEN WE VISIT YOUR SCIENCE FAIR PROJECT NEXT!

LEADING THE KIDS UPSTAIRS, CAPTAIN AMERICA STOPS OUTSIDE THE DOOR OF A SUPER-FUTURISTIC BATHROOM!
RECOGNIZE IT, CLARA?
IT'S MY SCIENCE FAIR PROJECT!
I'LL BET WIND POWER COULD DRY MY HAIR AS WELL AS THIS ELECTRIC BLOW-DRYER!
AND I'LL BET A TOWEL COULD DO AS GOOD A JOB AS THIS ENERGY-WASTING SUN LAMP!
WHAT ABOUT THIS RUNNING TUB FAUCET, CAP? IS THERE ANYTHING WRONG WITH THAT?
PRODUCING A YARDSTICK, CAP PREPARES TO ANSWER RICARDO'S QUESTION!
LET'S FIND OUT BY DOING A LITTLE EXPERIMENT! CLARA, IS THIS HOW YOU USUALLY FILL YOUR TUB?
YES, CAP--UP TO THE TOP AND NICE AND HOT!
ALL RIGHT! CLARA USUALLY LETS THE TUB FILL UP WITH HOT WATER TO THIS LEVEL ON THE YARDSTICK!
NOW LET'S LET THE WATER DRAIN OUT OF THE TUB--
--AND, AFTER CLOSING THE DRAIN, LET'S RUN THE SHOWER FOR THE SAME AMOUNT OF TIME AS IT TOOK CLARA TO FILL THE TUB FOR HER BATH!
SOON, CAPTAIN AMERICA SHUTS OFF THE SHOWER AND ASKS SOAPBOX TO TEST THE LEVEL OF THE WATER FILLING THE TUB!
GOSH, WE RAN THE SHOWER FOR AS LONG AS CLARA RAN THE WATER TO FILL HER TUB, AND ONLY USED HALF AS MUCH WATER!
AND HALF AS MUCH ENERGY NEEDED TO HEAT ALL THAT WATER, TOO!
I--I FEEL TERRIBLE! BY BEING AN ENERGY-WASTER, I'M ONLY HELPING TO DRAIN THE WORLD OF ITS ENERGY!
YOU'RE NOT THE ONLY ONE, CLARA--WE'VE ALL HELPED! I KNOW! I'M NEXT! RIGHT, CAP?
I'M AFRAID SO, TANYA!

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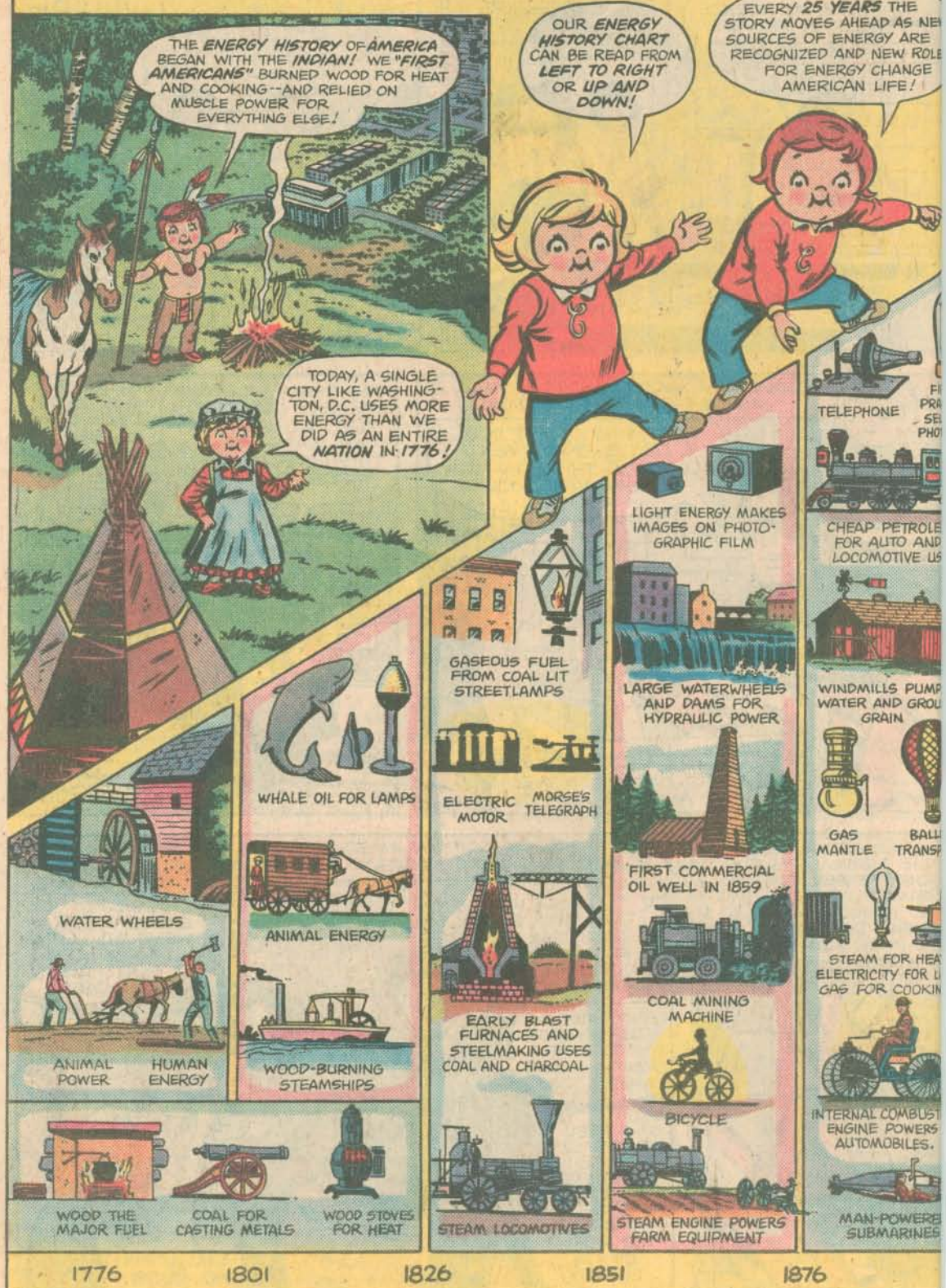
The Campbell Kids LOOK AT ENERGY I

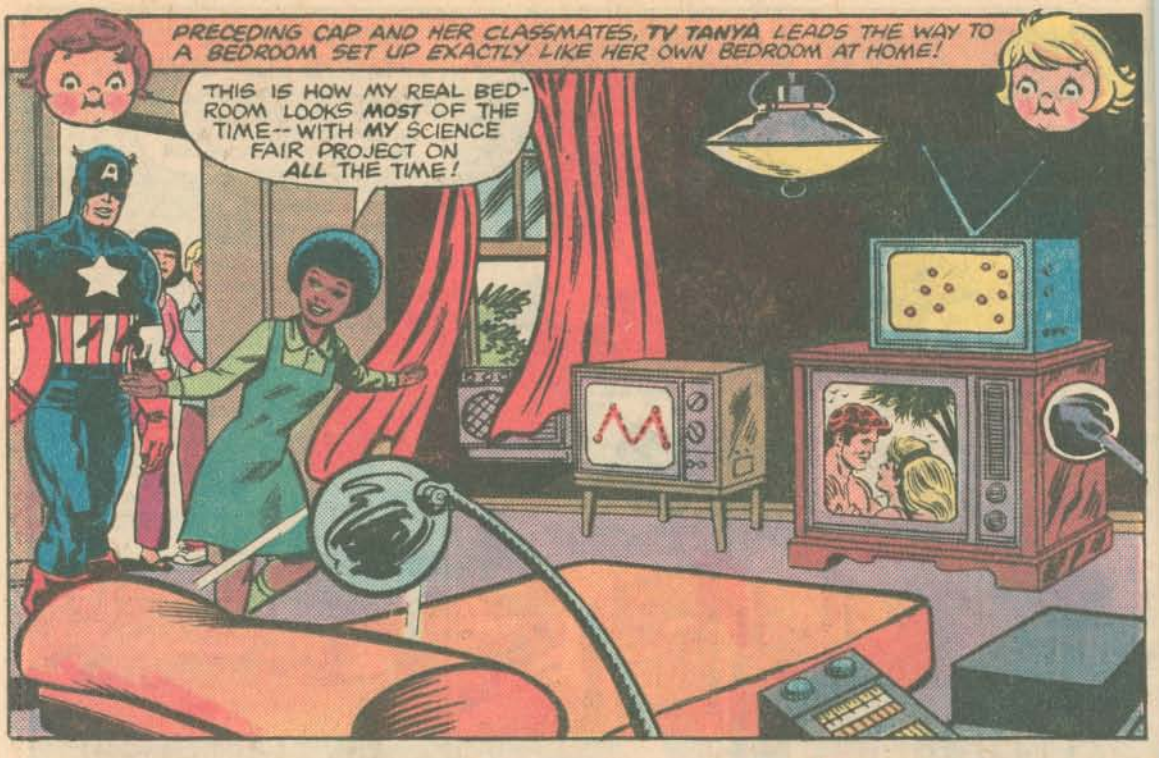

THE ENERGY HISTORY OF AMERICA BEGAN WITH THE INDIAN! WE "FIRST AMERICANS" BURNED WOOD FOR HEAT AND COOKING--AND RELIED ON MUSCLE POWER FOR EVERYTHING ELSE!
TODAY, A SINGLE CITY LIKE WASHINGTON, D.C. USES MORE ENERGY THAN WE DID AS AN ENTIRE NATION IN 1776!
OUR ENERGY HISTORY CHART CAN BE READ FROM LEFT TO RIGHT OR UP AND DOWN!
EVERY 25 YEARS THE STORY MOVES AHEAD AS NE SOURCES OF ENERGY ARE RECOGNIZED AND NEW ROLE FOR ENERGY CHANGE AMERICAN LIFE!
WATER WHEELS
ANIMAL POWER
HUMAN ENERGY
WHALE OIL FOR LAMPS
ANIMAL ENERGY
WOOD-BURNING STEAMSHIPS
GASEOUS FUEL FROM COAL LIT STREETLAMPS
ELECTRIC MOTOR
MORSE'S TELEGRAPH
EARLY BLAST FURNACES AND STEELMAKING USES COAL AND CHARCOAL
STEAM LOCOMOTIVES
LIGHT ENERGY MAKES IMAGES ON PHOTOGRAPHIC FILM
LARGE WATERWHEELS AND DAMS FOR HYDRAULIC POWER
FIRST COMMERCIAL OIL WELL IN 1859
COAL MINING MACHINE
BICYCLE
STEAM ENGINE POWERS FARM EQUIPMENT
TELEPHONE
CHEAP PETROLE FOR AUTO AND LOCOMOTIVE US
WINDMILLS PUMP WATER AND GROU GRAIN
GAS MANTLE
STEAM FOR HEA ELECTRICITY FOR L GAS FOR COOKIN
INTERNAL COMBUST ENGINE POWERS AUTOMOBILES.
MAN-POWERE SUBMARINES
WOOD THE MAJOR FUEL
COAL FOR CASTING METALS
WOOD STOVES FOR HEAT
1776
1801
1826
1851
1876

AMERICA'S HISTORY!

FROM THE HORSE AND BUGGY TO THE ELECTRIC CAR, AMERICANS KEEP MOVING INTO THE FUTURE.

ENERGY IN THE FUTURE— AMERICA'S 225TH BIRTHDAY!

IN THE YEAR 2001 WE WILL BE CONSERVING ENERGY NATURALLY BECAUSE OUR HOMES, CARS AND INDUSTRIES WILL BE ENERGY EFFICIENT!
NUCLEAR FISSION WILL BE PROVIDING A LOT MORE OF OUR ELECTRICITY AND SOLAR ENERGY MAY BE USED IN MILLIONS OF HOMES!
WIND AND WATER POWER WILL BECOME MORE IMPORTANT!
GASEOUS FUEL
EXISTING FUELS WILL BE MADE MORE EFFICIENT!
LIQUID FUEL
COAL
AND GOOD OLD WOOD--FROM TREES AND OTHER VEGETATION--COULD BE TURNED INTO "INSTANT FOSSIL FUELS"!
AND THAT'S ONLY SOME OF THE WAYS IN WHICH WE'LL GET OUR ENERGY! THERE MAY BE NEW ENERGY SOURCES JUST WAITING TO BE DISCOVERED!


PRECEDING CAP AND HER CLASSMATES, TY TANYA LEADS THE WAY TO A BEDROOM SET UP EXACTLY LIKE HER OWN BEDROOM AT HOME!
THIS IS HOW MY REAL BEDROOM LOOKS MOST OF THE TIME--WITH MY SCIENCE FAIR PROJECT ON ALL THE TIME!

YOU DON'T HAVE TO TELL ME WHAT'S WRONG HERE, CAP--I'VE LEARNED FROM SEEING WHAT RICARDO AND CLARA DID WRONG! BY LEAVING MY WINDOW OPEN WITH THE AIR-CONDITIONER ON, I'M ONLY COOLING THE OUTDOORS!
YOU COULD PROBABLY STAY JUST AS COOL BY LEAVING THE WINDOW OPEN AND CLOSING THE DRAPES!
RIGHT! AND I CAN SAVE EVEN MORE ENERGY BY TURNING OFF MY LIGHTS WHEN I'M NOT IN MY ROOM!
NOT TO MENTION ALL THESE TELEVISION SETS! WOW!

OUTSIDE THE HOME EXHIBIT, CAPTAIN AMERICA AND THE KIDS MAKE ONE LAST STOP!
THE GARAGE WHERE I DESIGN AND BUILD MY SOAPBOX RACE-CARS!
YOU DESIGNED THEM ALL TO RUN ON GASOLINE! BUT WHOSE ENERGY-EFFICIENT COMPACT CAR IS THAT PARKED OUTSIDE?

IT'S JUST LIKE THE ONE MY MOM DRIVES! SHE BOUGHT IT TO SAVE ENERGY BUT, WHEN SHE STOPPED DRIVING ME ALL OVER TOWN, I STARTED BUILDING GAS-GUZZLING ENGINES INTO MY SOAP-BOX CARS AND WASTING ALL THE ENERGY SHE'D SAVED!
AND YET TODAY YOU PROVED YOU COULD GO BOTH FAR AND FAST BY PEDAL POWER--WHILE SAVING ENERGY AT THE SAME TIME AND BUILDING YOUR MUSCLES!
THAT'S THE WAY I'LL TRAVEL FROM NOW ON, CAP--I PROMISE!

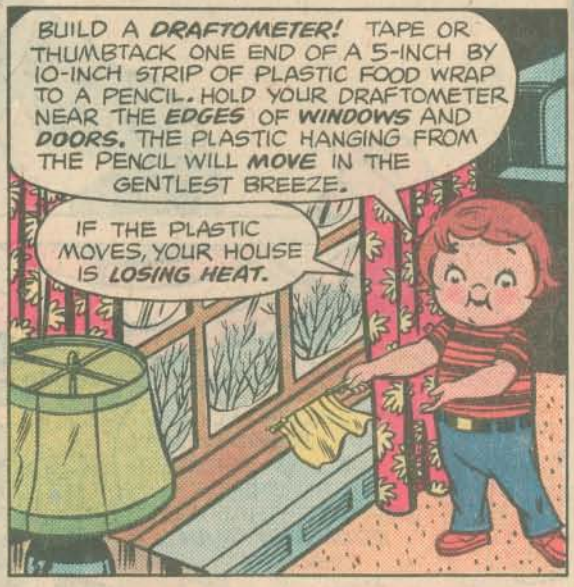
YOU'RE LEARNING FAST! THE ENERGY DRAINERS ARE COUNTING ON US TO WASTE ENERGY! THAT MAKES YOU, ME, EVERYBODY, THEIR SECRET WEAPON TO DRAIN ENERGY OUT OF THE WORLD!
BUT WE CAN STOP THEM COLD BY BECOMING ENERGY-SAVERS INSTEAD OF ENERGY-WASTERS!
YOU'VE MADE A GOOD START! NOW, IF YOU CAN KEEP IT UP, YOU'LL BE DOING A MARVELOUS JOB!
WE'LL TRY, CAP-- BUT WILL THAT BE ENOUGH TO STOP THE ENERGY DRAINERS?
I DON'T KNOW, CLARA--BUT I THINK THAT OUR KNOWLEDGE OF CONSERVATION MAY BE THE KEY TO DEFEATING THE ENERGY DRAINERS THAT THE DOOMSDAY MAN DESCRIBED!
NOW ALL OF YOU STAY HERE AT THE HOME EXHIBIT, WHERE IT'S SAFE--WHILE I SEARCH THE MUSEUM FOR THE ENERGY DRAINERS!
HOME EXHIBITS
I ONLY HOPE I'M CAPABLE OF STOPPING THEIR ENERGY-SQUANDERING SCHEME!
SHIELD IN HAND, THE RED-WHITE-AND-BLUE AVENGER RACES OFF ACROSS THE ENERGY MUSEUM'S MAIN EXHIBIT HALL! HE HAD ALREADY MET THE TERRIBLE TRIO ONCE! BUT WITH THE ENERGY RESOURCES OF THE ENTIRE EARTH AT STAKE, CAPTAIN AMERICA HAS NO CHOICE BUT TO FACE THE WASTERS ONCE AGAIN!

CONTINUED AFTER NEXT PAGE

The Campbell Kids' ENERGY EXPERIMENTS

CAN **YOU** HELP **CAPTAIN AMERICA**, BY BECOMING AN **ENERGY-SAVER** INSTEAD OF AN **ENERGY-WASTER?** HERE ARE A FEW **ENERGY EXPERIMENTS.** THEY'RE FUN--AND THEY'LL HELP **YOU** TO BECOME AN **ENERGY-SAVER!**

GO TO YOUR REFRIGERATOR AND FIND THE **RUBBER STRIP** AROUND THE DOOR (KNOWN AS THE GASKET). TRY TO SLIDE A DOLLAR BILL **BETWEEN** THE GASKET AND THE REFRIGERATOR.
IF YOU CAN DO IT, YOUR REFRIGERATOR IS WORKING **TOO HARD** AND USING **TOO MUCH ENERGY**-- AND THE GASKET SHOULD BE REPLACED.

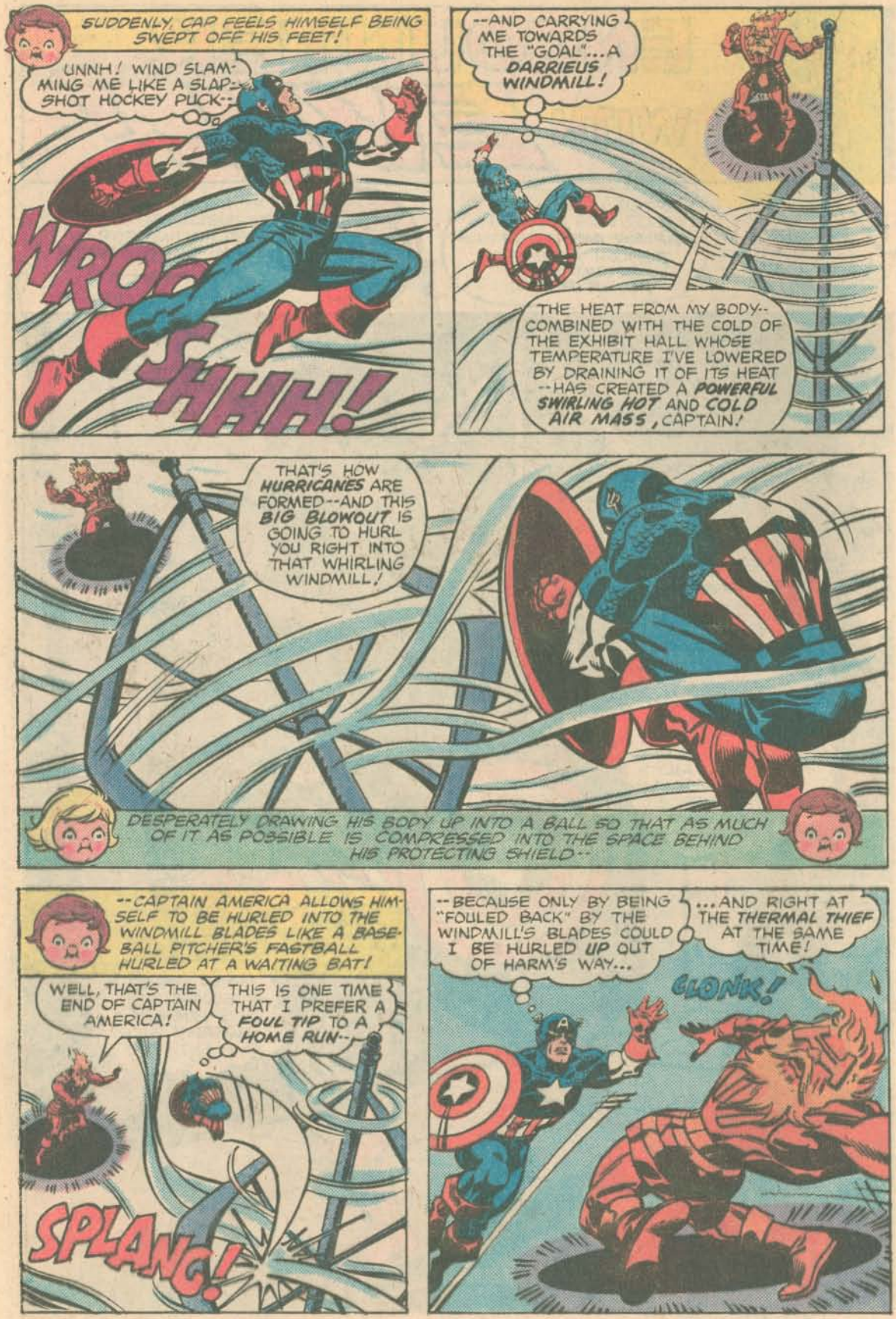

BUILD A **DRAFTOMETER!** TAPE OR THUMBTACK ONE END OF A 5-INCH BY 10-INCH STRIP OF PLASTIC FOOD WRAP TO A PENCIL. HOLD YOUR DRAFTOMETER NEAR THE **EDGES** OF **WINDOWS** AND **DOORS.** THE PLASTIC HANGING FROM THE PENCIL WILL **MOVE** IN THE GENTLEST BREEZE.
IF THE PLASTIC MOVES, YOUR HOUSE IS **LOSING HEAT.**

GET A **SHOEBOX** AND COVER THE TOP WITH PLASTIC FOOD WRAP. (SECURE THE PLASTIC WITH STRING, TAPE, OR A LARGE RUBBER BAND.) PUNCH A HOLE AT THE BOTTOM OF A SIDE AND PUT THE END OF A **THERMOMETER** INTO THE HOLE. PUT THE "HOUSE" IN THE SUNLIGHT, AND WATCH HOW THE THERMOMETER **RISES.** NEXT, COVER THE TOP OF THE BOX WITH A CLOTH AND REPEAT THE EXPERIMENT.
WHICH WAS **HOTTER?** HOUSES CAN BE HEATED THE SAME WAY IN WINTER, BY LETTING THE SUN SHINE IN!

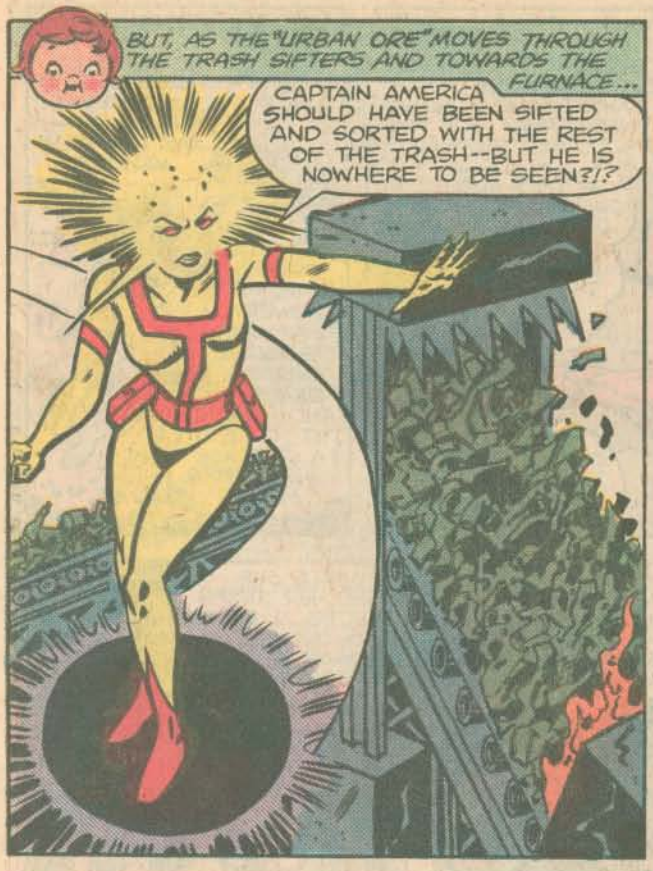
THE NEXT TIME YOU TAKE A **BATH,** USE A YARDSTICK TO MEASURE THE **DEPTH** OF THE WATER IN THE TUB (BEFORE YOU GET IN). AFTER THAT, WHEN YOU BATHE AGAIN, TAKE A **SHOWER** INSTEAD--BUT SHUT THE DRAIN AS THOUGH YOU WERE TAKING A BATH. WHEN YOU GET OUT OF THE TUB, USE THE YARDSTICK AND MEASURE THE **DEPTH** OF THE WATER AGAIN.
IF YOU'RE TAKING **BATHS** INSTEAD OF **SHOWERS,** YOU'RE PROBABLY USING **MORE WATER**--AND **ENERGY** TO **HEAT** IT--THAN YOU NEED.
RUN

THERE ARE PLENTY OF LITTLE WAYS WE CAN **SAVE ENERGY** IN OUR DAILY LIVES, AS THESE EXPERIMENTS PROVE. FOR EVERY EXPERIMENT YOU COMPLETED, GIVE YOURSELF **10 POINTS**-- IF YOU'VE DONE ALL RIGHT SO FAR, YOU'RE ALMOST TO YOUR **ENERGY DIPLOMA.**

CHAPTER FOUR
ENCOUNTER WITH EVIL!
AFTER LEAVING THE FOUR KIDS IN SAFETY, CAPTAIN AMERICA STALKS THROUGH THE ENERGY MUSEUM'S WIND POWER EXHIBIT!
HE KNOWS THAT THE TERRIBLE TRIO MUST BE WAITING FOR HIM--BUT WHERE?
I'VE GOT TO BE ALERT--ON MY GUARD! THE ENERGY DRAINERS CAN DRAIN POWER FROM WHERE IT'S NEEDED AND TURN IT FROM A POSITIVE FORCE TO WASTED POWER--
--AND POWER IS SOMETHING THIS ENERGY MUSEUM PACKS PLENTY OF!


SUDDENLY, CAP FEELS HIMSELF BEING SWEPT OFF HIS FEET!
UNNH! WIND SLAMMING ME LIKE A SLAP-SHOT HOCKEY PUCK--
WROOSH!
--AND CARRYING ME TOWARDS THE "GOAL"...A DARRIEUS WINDMILL!
THE HEAT FROM MY BODY--COMBINED WITH THE COLD OF THE EXHIBIT HALL WHOSE TEMPERATURE I'VE LOWERED BY DRAINING IT OF ITS HEAT --HAS CREATED A POWERFUL SWIRLING HOT AND COLD AIR MASS, CAPTAIN!
THAT'S HOW HURRICANES ARE FORMED--AND THIS BIG BLOWOUT IS GOING TO HURL YOU RIGHT INTO THAT WHIRLING WINDMILL!
DESPERATELY DRAWING HIS BODY UP INTO A BALL SO THAT AS MUCH OF IT AS POSSIBLE IS COMPRESSED INTO THE SPACE BEHIND HIS PROTECTING SHIELD--
--CAPTAIN AMERICA ALLOWS HIMSELF TO BE HURLED INTO THE WINDMILL BLADES LIKE A BASEBALL PITCHER'S FASTBALL HURLED AT A WAITING BAT!
WELL, THAT'S THE END OF CAPTAIN AMERICA!
THIS IS ONE TIME THAT I PREFER A FOUL TIP TO A HOME RUN--
SPLANG!
--BECAUSE ONLY BY BEING "FOULED BACK" BY THE WINDMILL'S BLADES COULD I BE HURLED UP OUT OF HARM'S WAY...
...AND RIGHT AT THE THERMAL THIEF AT THE SAME TIME!
CLONK!

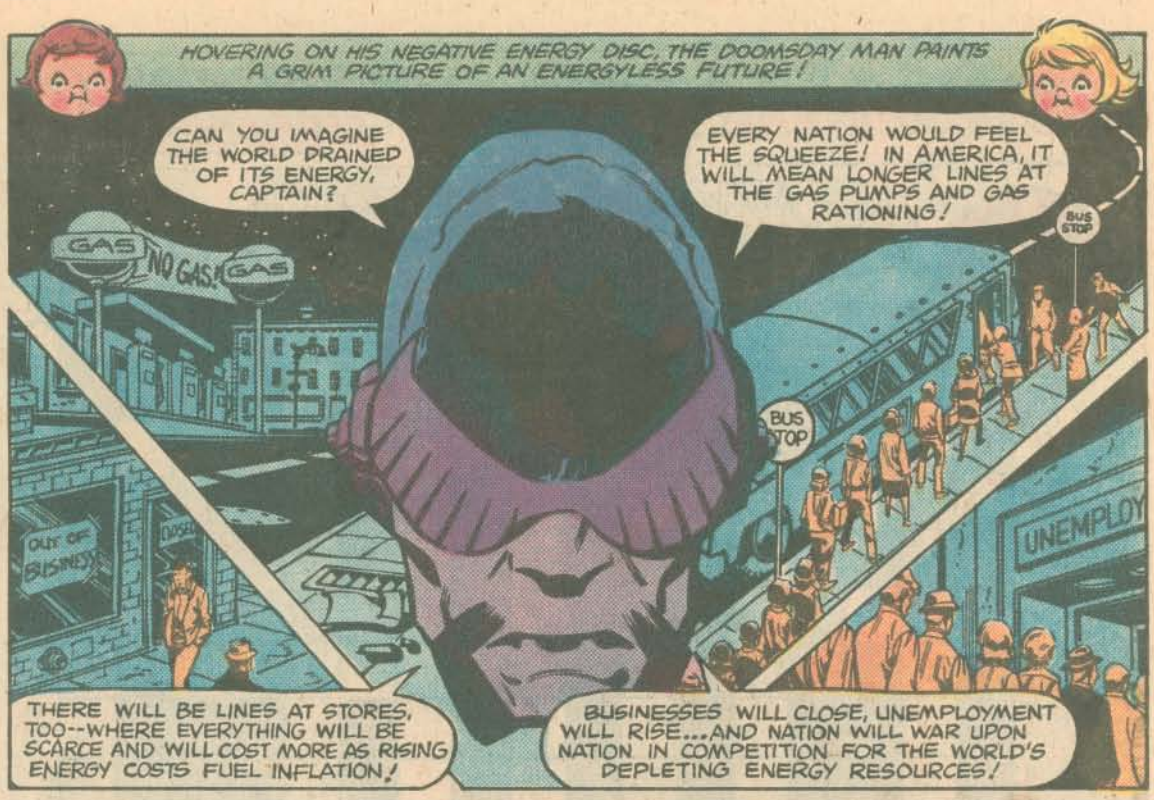
BACK ON THE FLOOR OF THE WIND POWER EXHIBIT, CAP PONDERS HOW TO DEFEAT HIS REMAINING FOES!
WHAT THE ENERGY DRAINERS WANT IS POWER! THAT'S CLEAR--BUT HOW DO THEY INTEND TO GET IT?
OBVIOUSLY, BY DRAINING ENERGY FROM OTHERS--THE WAY THE THERMAL THIEF, HERE, DRAINED IT FROM THE WIND-POWER EXHIBIT--AND SIPHONING THE STOLEN ENERGY AWAY FROM WHERE IT DOES ITS GOOD INTO THEMSELVES!
IF THEY SUCCEED IN DRAINING THE ENERGY OF THE ENTIRE EARTH, THEY'LL BECOME SO SUPER-POWERFUL THAT I WON'T HAVE A PRAYER OF STOPPING THEM!
DON'T GLOAT OVER YOUR DEFEAT OF THE THERMAL THIEF SO SOON, MY DEAR CAPTAIN!
AFTER ALL, YOU STILL HAVE TWO MORE ENERGY DRAINERS TO CONTEND WITH!
THE WATTAGE WASTER!
SHE'S DRAINING POWER AWAY FROM THE NUCLEAR ENERGY EXHIBIT AND HURLING IT AT ME IN A BARRAGE OF LIGHTNING BOLTS!
ENDEAVORING TO AVOID THE WATTAGE WASTER'S ELECTRICAL ASSAULT, CAP FINDS HIMSELF TEETERING OVER THE RECYCLING EXHIBIT WHERE URBAN WASTE IS TURNED INTO FUEL!
OFF-BALANCE! FALLING BACK ONTO THAT CONVEYOR BELT CARRYING "URBAN ORE"!
THE WATTAGE WASTER IS KEEPING ME PINNED DOWN--
--WHILE SHE USES HER STOLEN ELECTRICAL ENERGY TO PUSH ME TOWARDS THOSE TRASH SIFTERS AT TOP SPEED!
CONVEYOR SPEED CONTROL
URBAN ORE EXHIBIT
THERE IS NO WAY YOU CAN ESCAPE, CAPTAIN AMERICA!
I HATE TO ADMIT IT--BUT SHE MAY BE RIGHT!
SSKREEE


BUT, AS THE "URBAN ORE" MOVES THROUGH THE TRASH SIFTERS AND TOWARDS THE FURNACE...
CAPTAIN AMERICA SHOULD HAVE BEEN SIFTED AND SORTED WITH THE REST OF THE TRASH--BUT HE IS NOWHERE TO BE SEEN?!?

TAKE THAT--SOME SUPER-SPEED DYNAMICS TO REVERSE YOUR MAGNETIC POLARITY AND SHUT DOWN YOUR POWER! A HIGHLY UNDIGNIFIED WAY FOR A HERO TO MEET HIS END, WATTAGE WASTER--CARRIED OUT WITH THE TRASH!

YOU UNDERESTIMATED THE STRENGTH OF MY SHIELD, WATTAGE WASTER! JUST BEFORE THE TRASH SIFTER'S TEETH WERE ABOUT TO REACH ME--
--I CROUCHED DOWN BENEATH MY SHIELD AND LET THEM SCRAPE HARMLESSLY AGAINST ITS SURFACE.

NO SOONER HAS CAPTAIN AMERICA DEFEATED THE WILY WATTAGE WASTER, HOWEVER, THAN HE NOW FINDS HIMSELF THE TARGET OF A SEARING SOLAR ONSLAUGHT DELIVERED BY THE LEADER OF THE ENERGY DRAINERS!
THE DOOMSDAY MAN!
SSSSSS IZT!
CORRECT, CAPTAIN--THE LAST BUT MOST POWERFUL FOE YOU MUST FACE IF YOU WISH TO KEEP THE WORLD FROM RUNNING OUT OF ENERGY!


HOVERING ON HIS NEGATIVE ENERGY DISC, THE DOOMSDAY MAN PAINTS A GRIM PICTURE OF AN ENERGYLESS FUTURE!
CAN YOU IMAGINE THE WORLD DRAINED OF ITS ENERGY, CAPTAIN?
EVERY NATION WOULD FEEL THE SQUEEZE! IN AMERICA, IT WILL MEAN LONGER LINES AT THE GAS PUMPS AND GAS RATIONING!
GAS
NO GAS!
GAS
BUS STOP
BUS STOP
OUT OF BUSINESS
UNEMPLOY
THERE WILL BE LINES AT STORES, TOO--WHERE EVERYTHING WILL BE SCARCE AND WILL COST MORE AS RISING ENERGY COSTS FUEL INFLATION!
BUSINESSES WILL CLOSE, UNEMPLOYMENT WILL RISE...AND NATION WILL WAR UPON NATION IN COMPETITION FOR THE WORLD'S DEPLETING ENERGY RESOURCES!

IT WILL BE A TIME WHEN I SHALL REIGN SUPREME, FEEDING ON POWER AT THE EXPENSE OF THE EARTH!
TO SAVE THE EARTH, I'VE GOT TO STOP THE DOOMSDAY MAN BEFORE HIS ENERGY-DRAINING ABILITIES MAKE HIM INVINCIBLE!
BUT EVEN NOW HE'S SO POWERFUL THAT HE CAN DRAIN THE VERY ENERGY OF THE SUN STREAMING THROUGH THE ENERGY MUSEUM'S SOLAR SKYLIGHT--
--AND HURL IT DOWN AT ME IN SOLAR SUNBURSTS!
SZRAK!
AARRGHH!
NOT EVEN CAP'S SHIELD CAN PROTECT HIM FROM THE DOOMSDAY MAN'S STOLEN SOLAR POWERS!

WATCHING THROUGH THE WINDOW OF THE HOME EXHIBIT, THE KIDS IN CAP'S TOUR GROUP WITNESS THEIR HERO'S DOWNFALL!
IT'S ALL OVER FOR THE EARTH NOW--UNLESS WE DO SOMETHING TO SAVE IT!
WHAT CAN WE DO? WE'RE ONLY KIDS!
DID YOU FORGET WHAT CAP SAID? AS ENERGY-WASTERS, WE WERE THE ENERGY DRAINERS' SECRET WEAPONS--

--BUT, AS ENERGY-SAVERS, WE KIDS ARE THE KEY TO DEFEATING THE DOOMSDAY MAN!
WELL, DO WE TRY TO DO A HEROIC JOB OR NOT?
FOUR KIDS TRYING TO SAVE THE WORLD AND CAPTAIN AMERICA FROM THE DEADLY DOOMSDAY MAN? IMPOSSIBLE! OR IS IT?
--END CHAPTER FOUR--

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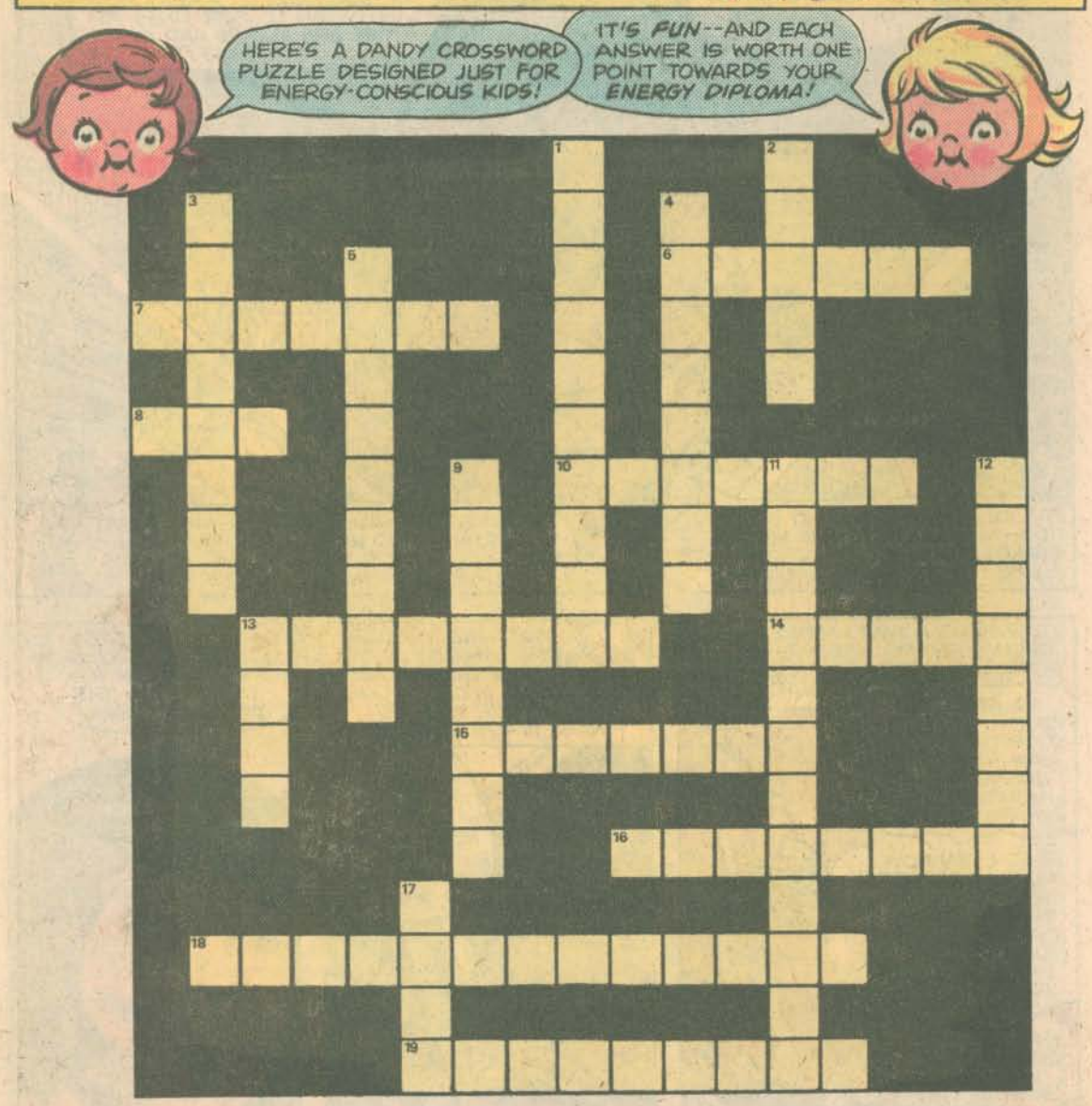
The Campbell Kids' ENERGY CROSSWORD PUZZLE


HERE'S A DANDY CROSSWORD PUZZLE DESIGNED JUST FOR ENERGY-CONSCIOUS KIDS!
IT'S FUN--AND EACH ANSWER IS WORTH ONE POINT TOWARDS YOUR ENERGY DIPLOMA!

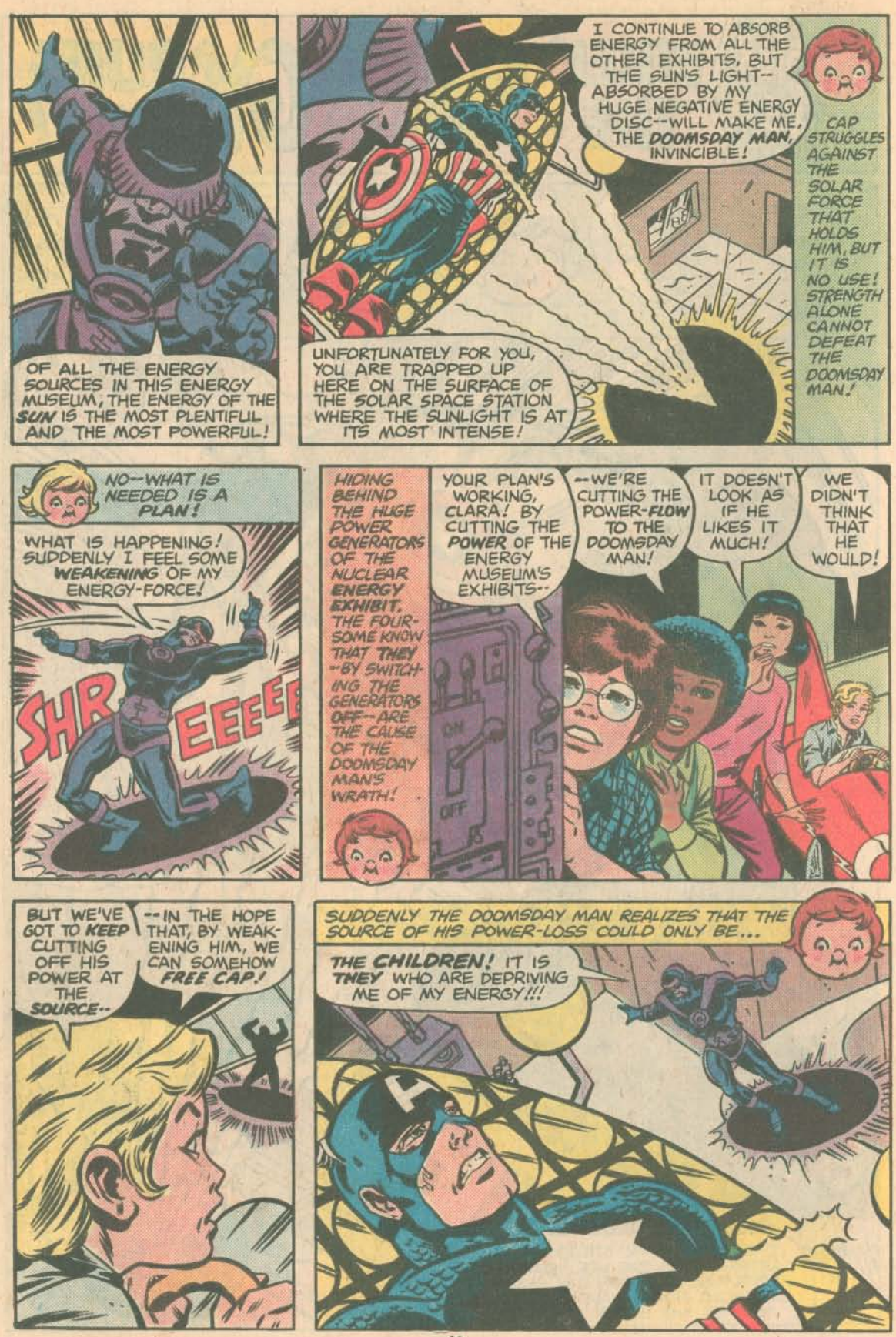
DOWN:

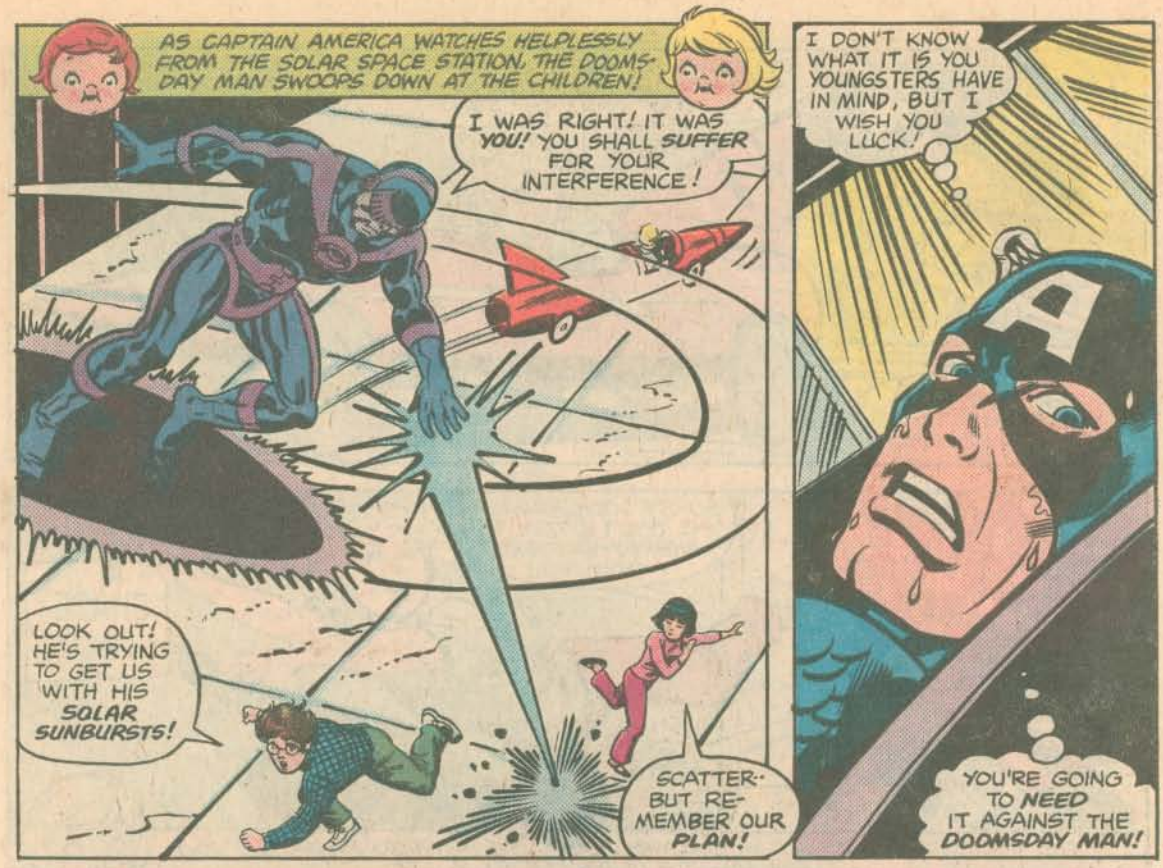
1 — Power from Earth-Heated Geysers.
2 — Sources for 'Wood Power'.
3 — Window, on Top of Building, That Lets in Sunlight.
4 — Perpendicular to Horizontal.
5 — Tropical Storm.
9 — Metal Used in Soda Cans That Conducts Electricity Well.
11 — Saving (Natural Resources).
12 — Activate Power Source.
13 — A Unit of Electrical Power.
17 — Solid Fossil Fuel.

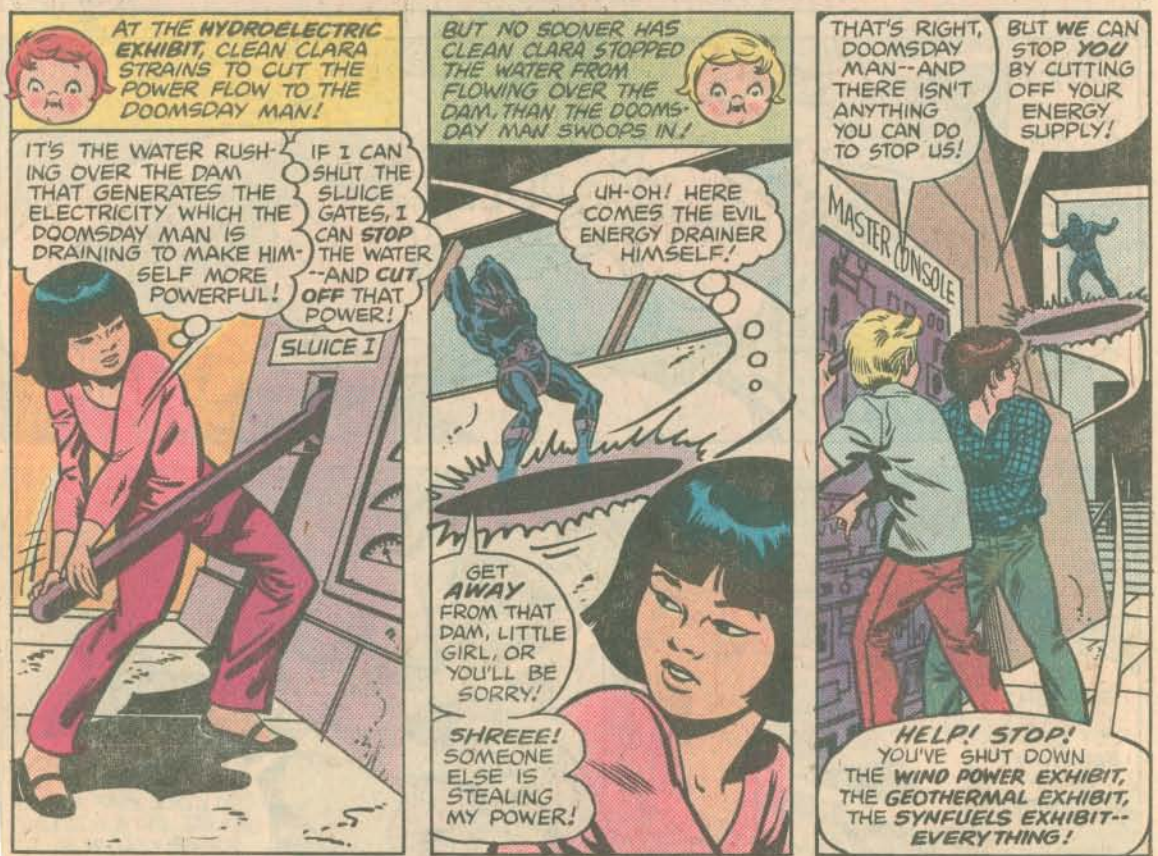
ACROSS:

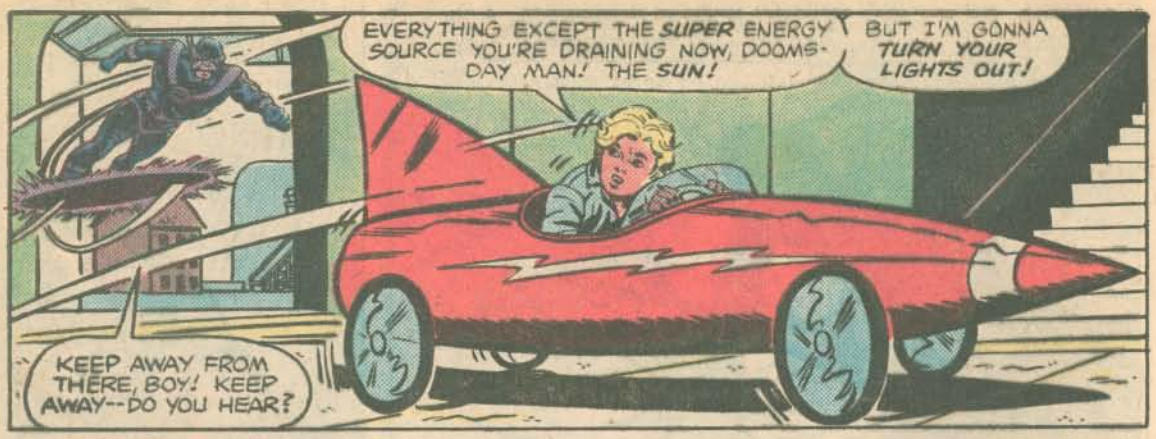
6 — Capacity for Vigorous Action.
7 — Energy Source from Grain.
8 — Liquid Fossil Fuel.
10 — To Re-use Something.
13 — Generator Turned by Air.
14 — Power From the Sun.
15 — Power From Split Atoms.
16 — Opposite of Positive.
18 — Power from Waterfalls.
19 — Nature's Electrical Discharge.

CHAPTER FIVE
WHEN THE ENERGY RUNS OUT!
HAVING DEFEATED CAPTAIN AMERICA, THE DOOMSDAY MAN CARRIES HIM UP TOWARDS THE HUGE SKYLIGHT OF THE ENERGY MUSEUM--
--WHERE HE USES HIS POWER TO FASTEN CAP TO A SOLAR SPACE STATION... A BANK OF SOLAR PANELS DESIGNED TO CATCH THE SUN'S RAYS--
AND BEAM THEM DOWN TO EARTH AS USABLE ENERGY!
I--I CAN'T MOVE! SOMEHOW THE DOOMSDAY MAN HAS USED HIS POWER TO IMPRISON ME ON THE SURFACE OF THIS HUGE SOLAR COLLECTOR!
IT IS USELESS TO STRUGGLE, CAPTAIN! IT IS THE VERY SUNLIGHT STREAMING THROUGH THE SKYLIGHT OVERHEAD THAT I HAVE USED TO BIND YOU TO THE SOLAR STATION!


OF ALL THE ENERGY SOURCES IN THIS ENERGY MUSEUM, THE ENERGY OF THE SUN IS THE MOST PLENTIFUL AND THE MOST POWERFUL!
I CONTINUE TO ABSORB ENERGY FROM ALL THE OTHER EXHIBITS, BUT THE SUN'S LIGHT--ABSORBED BY MY HUGE NEGATIVE ENERGY DISC--WILL MAKE ME, THE DOOMSDAY MAN, INVINCIBLE!
CAP STRUGGLES AGAINST THE SOLAR FORCE THAT HOLDS HIM, BUT IT IS NO USE! STRENGTH ALONE CANNOT DEFEAT THE DOOMSDAY MAN!
UNFORTUNATELY FOR YOU, YOU ARE TRAPPED UP HERE ON THE SURFACE OF THE SOLAR SPACE STATION WHERE THE SUNLIGHT IS AT ITS MOST INTENSE!
NO--WHAT IS NEEDED IS A PLAN!
WHAT IS HAPPENING! SUDDENLY I FEEL SOME WEAKENING OF MY ENERGY-FORCE!
SHR
EEEEE
HIDING BEHIND THE HUGE POWER GENERATORS OF THE NUCLEAR ENERGY EXHIBIT, THE FOURSOME KNOW THAT THEY --BY SWITCHING THE GENERATORS OFF--ARE THE CAUSE OF THE DOOMSDAY MAN'S WRATH!
YOUR PLAN'S WORKING, CLARA! BY CUTTING THE POWER OF THE ENERGY MUSEUM'S EXHIBITS--
--WE'RE CUTTING THE POWER-FLOW TO THE DOOMSDAY MAN!
IT DOESN'T LOOK AS IF HE LIKES IT MUCH!
WE DIDN'T THINK THAT HE WOULD!
ON
OFF
BUT WE'VE GOT TO KEEP CUTTING OFF HIS POWER AT THE SOURCE--
--IN THE HOPE THAT, BY WEAKENING HIM, WE CAN SOMEHOW FREE CAP!
SUDDENLY THE DOOMSDAY MAN REALIZES THAT THE SOURCE OF HIS POWER-LOSS COULD ONLY BE...
THE CHILDREN! IT IS THEY WHO ARE DEPRIVING ME OF MY ENERGY!!!


AS CAPTAIN AMERICA WATCHES HELPLESSLY FROM THE SOLAR SPACE STATION, THE DOOMSDAY MAN SWOOPS DOWN AT THE CHILDREN!
I WAS RIGHT! IT WAS YOU! YOU SHALL SUFFER FOR YOUR INTERFERENCE!
LOOK OUT! HE'S TRYING TO GET US WITH HIS SOLAR SUNBURSTS!
SCATTER-- BUT REMEMBER OUR PLAN!
I DON'T KNOW WHAT IT IS YOU YOUNGSTERS HAVE IN MIND, BUT I WISH YOU LUCK!
YOU'RE GOING TO NEED IT AGAINST THE DOOMSDAY MAN!

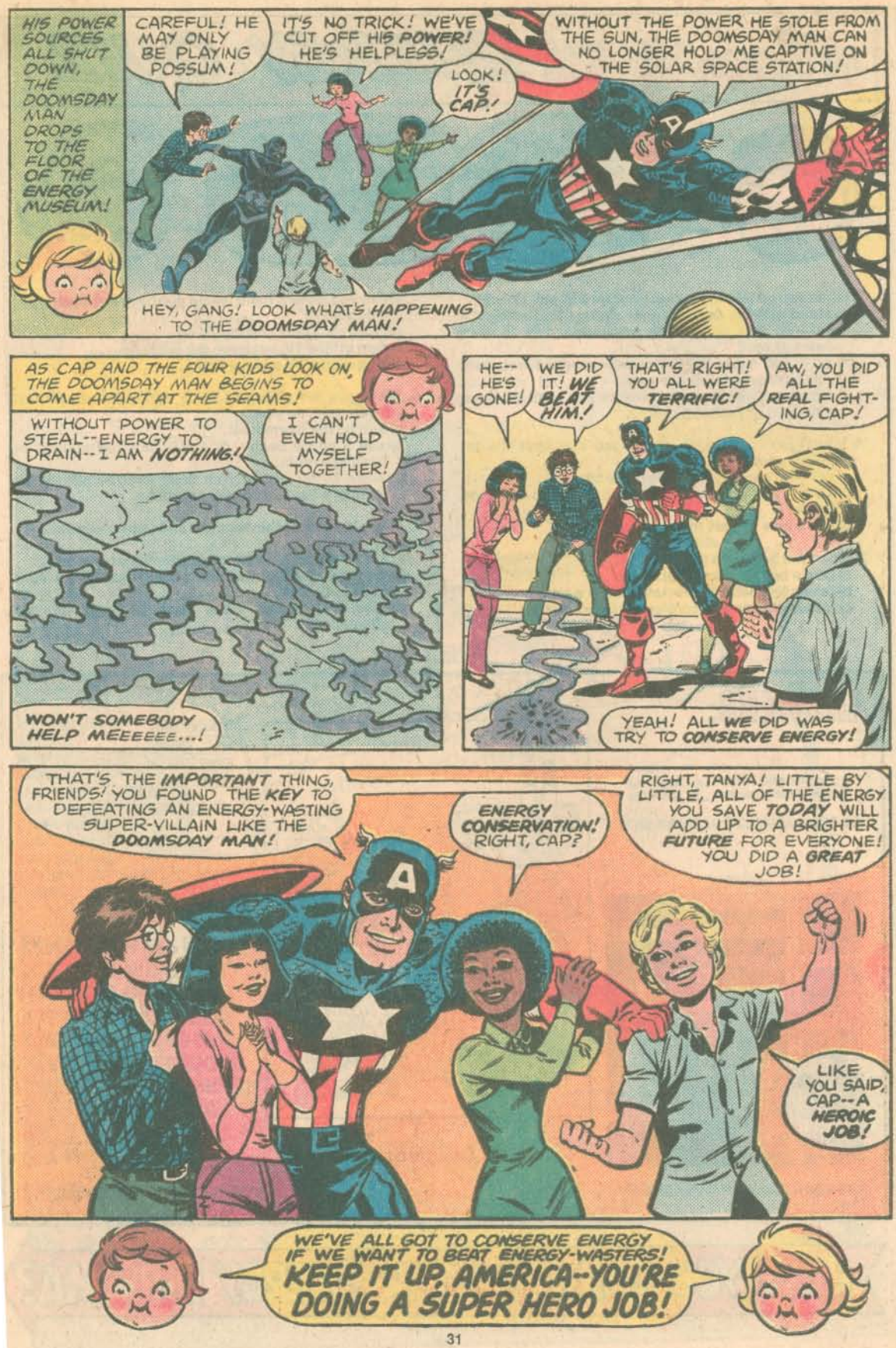

AT THE HYDROELECTRIC EXHIBIT, CLEAN CLARA STRAINS TO CUT THE POWER FLOW TO THE DOOMSDAY MAN!
IT'S THE WATER RUSHING OVER THE DAM THAT GENERATES THE ELECTRICITY WHICH THE DOOMSDAY MAN IS DRAINING TO MAKE HIMSELF MORE POWERFUL!
IF I CAN SHUT THE SLUICE GATES, I CAN STOP THE WATER --AND CUT OFF THAT POWER!
SLUICE I
BUT NO SOONER HAS CLEAN CLARA STOPPED THE WATER FROM FLOWING OVER THE DAM, THAN THE DOOMSDAY MAN SWOOPS IN!
UH-OH! HERE COMES THE EVIL ENERGY DRAINER HIMSELF!
GET AWAY FROM THAT DAM, LITTLE GIRL, OR YOU'LL BE SORRY!
SHREEE! SOMEONE ELSE IS STEALING MY POWER!
THAT'S RIGHT, DOOMSDAY MAN--AND THERE ISN'T ANYTHING YOU CAN DO TO STOP US!
BUT WE CAN STOP YOU BY CUTTING OFF YOUR ENERGY SUPPLY!
MASTER CONSOLE
HELP! STOP! YOU'VE SHUT DOWN THE WIND POWER EXHIBIT, THE GEOTHERMAL EXHIBIT, THE SYNFUELS EXHIBIT-- EVERYTHING!


EVERYTHING EXCEPT THE SUPER ENERGY SOURCE YOU'RE DRAINING NOW, DOOMSDAY MAN! THE SUN!
BUT I'M GONNA TURN YOUR LIGHTS OUT!
KEEP AWAY FROM THERE, BOY! KEEP AWAY--DO YOU HEAR?

FASHT!
SORRY, DOOMSDAY MAN --I DON'T LISTEN TO ENERGY-WASTERS ANYMORE!
SHADE PULL
THE DOOMSDAY MAN'S SOLAR SUNBURST DESTROYS SOAPBOX'S RACER BUT SOAPBOX HIMSELF LEAPS CLEAR!

AND, STRETCHING WITH ALL HIS MIGHT, SOAPBOX REACHES FOR...
SHADE PULL
THE SOLAR SKYLIGHT'S SHADE CONTROLS!

THE SUNLIGHT-- YOU'VE CUT OFF THE SUNLIGHT!
SHADE PULL
EVERYBODY KNOWS THAT THE BEST WAY TO COOL OFF A HOT HOUSE OR A SIZZLING SUPER-VILLAIN IS TO DRAW THE SHADES!


HIS POWER SOURCES ALL SHUT DOWN, THE DOOMSDAY MAN DROPS TO THE FLOOR OF THE ENERGY MUSEUM!
CAREFUL! HE MAY ONLY BE PLAYING POSSUM!
IT'S NO TRICK! WE'VE CUT OFF HIS POWER! HE'S HELPLESS!
LOOK! IT'S CAP!
WITHOUT THE POWER HE STOLE FROM THE SUN, THE DOOMSDAY MAN CAN NO LONGER HOLD ME CAPTIVE ON THE SOLAR SPACE STATION!
HEY, GANG! LOOK WHAT'S HAPPENING TO THE DOOMSDAY MAN!
AS CAP AND THE FOUR KIDS LOOK ON, THE DOOMSDAY MAN BEGINS TO COME APART AT THE SEAMS!
WITHOUT POWER TO STEAL--ENERGY TO DRAIN--I AM NOTHING!
I CAN'T EVEN HOLD MYSELF TOGETHER!
WON'T SOMEBODY HELP MEEEEEEE...!
HE--HE'S GONE!
WE DID IT! WE BEAT HIM!
THAT'S RIGHT! YOU ALL WERE TERRIFIC!
AW, YOU DID ALL THE REAL FIGHTING, CAP!
YEAH! ALL WE DID WAS TRY TO CONSERVE ENERGY!
THAT'S THE IMPORTANT THING, FRIENDS! YOU FOUND THE KEY TO DEFEATING AN ENERGY-WASTING SUPER-VILLAIN LIKE THE DOOMSDAY MAN!
ENERGY CONSERVATION! RIGHT, CAP?
RIGHT, TANYA! LITTLE BY LITTLE, ALL OF THE ENERGY YOU SAVE TODAY WILL ADD UP TO A BRIGHTER FUTURE FOR EVERYONE! YOU DID A GREAT JOB!
LIKE YOU SAID, CAP--A HEROIC JOB!
WE'VE ALL GOT TO CONSERVE ENERGY IF WE WANT TO BEAT ENERGY-WASTERS! KEEP IT UP, AMERICA--YOU'RE DOING A SUPER HERO JOB!

The Campbell Kids' ENERGY QUIZ

YOU CAN DO A SUPER HERO JOB, TOO. GO THROUGH THIS QUESTIONNAIRE--AND PUT YOURSELF IN TRAINING FOR ENERGY SAVING!
REMEMBER: YOUR BEST SOURCE OF ENERGY IS YOURSELF. IN GENERAL, THE FEWER MACHINES YOU USE, THE LESS ENERGY YOU'LL USE!

1. When you go into the refrigerator for a snack, do you:
   a) stand with the door open for a long time, letting the cold air leak out so the refrigerator has to work twice as hard.
   b) go in and out of the refrigerator several times, until you have everything you want.
   c) figure out what you want before you open the door, and get it as fast as possible.

2. When you need to go someplace that isn't too far away, do you:
   a) ask your parents for a ride in the car.
   b) take a bus or some other form of public transportation.
   c) ride a bike or walk there and back.

3) When you bathe, do you:
   a) take a bath with very hot water.
   b) take a bath with comfortably warm water.
   c) take a shower with comfortably warm water.

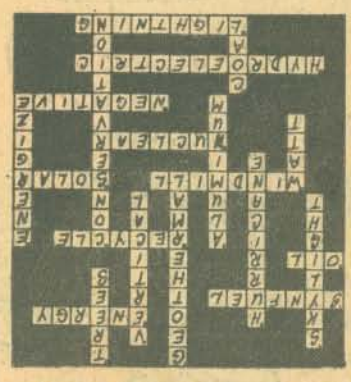
4. When you leave a room where you have been watching TV, do you:
   a) leave the lights and the TV on.
   b) turn off the TV, but leave the lights on.
   c) turn off the TV and the lights.

5. When you are sitting at home during the winter and you feel cold, do you:
   a) turn up the thermostat.
   b) use a space heater, or some localized method of heating a room.
   c) make better use of your body heat by putting on another sweater or heavier clothing.

6. When it's hot in the summer and you're at home, do you:
   a) use an air conditioner to keep temperatures cool.
   b) go until you feel hot and sticky, and take a cold shower to cool off.
   c) use well-placed small fans to keep the air circulating.

ANSWERS:

ANSWER TO ACTIVITY PAGE #2



ANSWERS TO ACTIVITY PAGE #4

ANSWERS TO ACTIVITY PAGE #5

For each "C" answer score 5 points.
For each "B" answer give yourself 3 points.

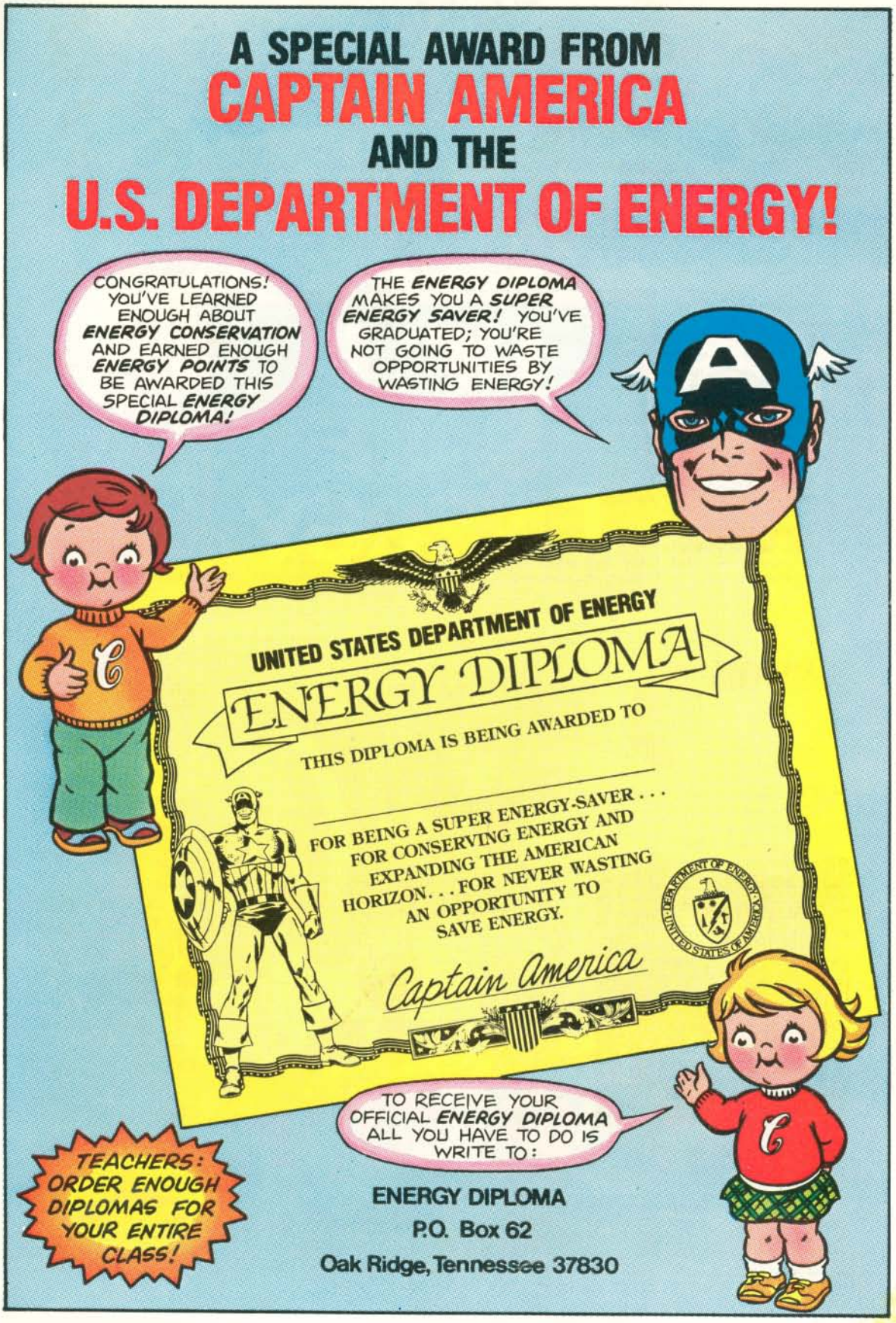
MUSCLES

Humans:	
The Sun:	Solar Power
The Ground:	Oil
The Ground:	Coal
Steam inside The Earth:	Geothermal
The Atom:	Nuclear
Shale and Grains:	Synfuel
Water:	Hydropower
Trees:	Wood
Re-used Trash:	Recycling

ANSWERS TO ACTIVITY PAGE #1

HAVE YOU EARNED YOUR ENERGY DIPLOMA?

A SPECIAL AWARD FROM
CAPTAIN AMERICA
AND THE
U.S. DEPARTMENT OF ENERGY!


CONGRATULATIONS! YOU'VE LEARNED ENOUGH ABOUT ENERGY CONSERVATION AND EARNED ENOUGH ENERGY POINTS TO BE AWARDED THIS SPECIAL ENERGY DIPLOMA!
THE ENERGY DIPLOMA MAKES YOU A SUPER ENERGY SAVER! YOU'VE GRADUATED; YOU'RE NOT GOING TO WASTE OPPORTUNITIES BY WASTING ENERGY!
UNITED STATES DEPARTMENT OF ENERGY
ENERGY DIPLOMA
THIS DIPLOMA IS BEING AWARDED TO
FOR BEING A SUPER ENERGY-SAVER . . . FOR CONSERVING ENERGY AND EXPANDING THE AMERICAN HORIZON. . . FOR NEVER WASTING AN OPPORTUNITY TO SAVE ENERGY.
Captain America
TO RECEIVE YOUR OFFICIAL ENERGY DIPLOMA ALL YOU HAVE TO DO IS WRITE TO:
TEACHERS: ORDER ENOUGH DIPLOMAS FOR YOUR ENTIRE CLASS!

ENERGY DIPLOMA
P.O. Box 62
Oak Ridge, Tennessee 37830

Take it from

CAPTAIN AMERICA®

and the

Campbell Kids™

HELP SAVE ENERGY
KEEP IT UP AMERICA— SAVE ENERGY WITH US. WE CAN MAKE A DIFFERENCE IN OUR HOMES TODAY!
TURN OUT YOUR LIGHTS WHEN THEY'RE NOT IN USE.
CLOSE DOORS TO KEEP THE HEAT INSIDE!
TURN OFF YOUR TELEVISION OR RADIO WHEN NO ONE'S USING THEM.
HELP YOUR FAMILY SAVE ENERGY. LITTLE BY LITTLE, IT ALL ADDS UP.
UNITED STATES DEPARTMENT OF ENERGY